Issued: May 27, 2008

Storm Series®
Ranger II™
Excel™
R2™ jr.
FWD

Powered Wheelchairs

Yes, you can. ™

Parts Catalog Usage Guide

The information contained in this document is subject to change without notice. This catalog contains service parts for Form No. 98-289. If you have any questions regarding this catalog, please contact one of our Customer Service Representatives.

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SYMBOL DEFINITION

Throughout this catalog you will notice letters to draw your attention to specific footnotes which are located at the bottom of the page or below specified charts.

Examples:

A,B,C etc.	=	Special Comments
NOTE:	=	General information pertaining to that specific page
NLA	=	No Longer Available

HARDWARE MEASUREMENTS

The measurements for the hardware will be listed as follows:

Screws, Bolts	Diameter X Thread Count/Pitch X Length
Washers	Inside Diameter X Outside Diameter X Thickness
Spacers	Inside Diameter X Outside Diameter X Length

For your convenience, we have supplied an area for you to list your Invacare Representatives.

Name	Phone Numbers

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TABLE of CONTENTS

Description	Page Number
Accessories - Power Wheelchair Tool Kit	145
Accessories, Oxygen Holder Assembly Kit After 4/14/03 - Captain Seat	39
Accessories, Oxygen Holder Assembly Kit Before 4/15/03 - Captain Seat	37
Arms - Captain Seat and Hardware	43
Arms - Excel	48
Arms - Ranger II / R2 jr.	45
Back Canes and Attaching Hardware - Sling Seat Only	20
Battery Boxes and Trays	59
Battery Boxes and Trays - R2 jr. (14" Wide)	61
Battery Chargers and Harness - R2 jr. (14" Wide)	65
Battery Chargers and Harnesses	63
Captain Seat Assembly After 8/31/02	31
Captain Seat Assembly Before 9/1/02	28
Captain Seat Frame and Actuator Hardware After 8/31/02	35
Captain Seat Frame and Actuator Hardware Before 9/1/02	33
Caster and Forks, Rear	50
Crossbraces and Hardware - Captain Seat	18
Crossbraces, Seat Extensions and Hardware - R2 jr.	16
Crossbraces, Seat Extensions and Hardware - Sling Seat	14
Drive Wheel (12-1/2 x 2-1/4"), 2-Pole Motor and Gearbox (Ranger II Basic, Excel and R2 jr.)	52
Drive Wheel (12-1/2 x 2-1/4"), 4-Pole Motor and Gearbox (Ranger II Standard)	54

TABLE of CONTENTS

Description	Page Number
Drive Wheel (14 x 3") and Hub Mount	57
Electronics - COM12 and COM34	136
Electronics - MKIV Controller, Programmer and Attaching Hardware	133
Electronics - MKIV Displays	138
Electronics - MKIV Joystick Mounting Hardware and Joystick Accessories	121
Electronics - MKIV Joystick Options	140
Electronics - MKIV Joysticks - Excel, RII, RX, A, A+, TCHJOY	116
Electronics - MKIV Joysticks - PSF and PSR	119
Electronics - MKIV Mid-Line Swing Bracket Assembly	125
Electronics - MKIV Recliner Control and Recliner Cable	137
Electronics - MKIV Sip-N-Puff/Digital Interface	135
Electronics - MKIV Swivel Joystick Hardware	123
Electronics - Quad Link Assembly (Before 4/07/06)	127
Electronics - Quad Link Assembly (QL) (After 4/06/06)	130
Electronics - Tash and Therafin Accessories	143
Frame Finishes, Touch-Up Paint and Upholstery Options	6
Front Rigging - Adjustable Flip-Up Removable Footboard (After 2/29/00)	109
Front Rigging - Adjustable Flip-Up Removable Footboard (Before 3/1/00)	106
Front Rigging - Calf Pads and Attaching Hardware	96
Front Rigging - Footrest and Legrest Accessories	112
Front Rigging - Footrest Supports - P93M	88

TABLE of CONTENTS

Description	Page Number
Front Rigging - Footrest Supports - PW93	82
Front Rigging - Footrest Supports - PW93E	84
Front Rigging - Footrest Supports - PW93ST	86
Front Rigging - Legrest Release Handle and Ratchet	94
Front Rigging - Legrest Supports - P904A	90
Front Rigging - Legrest Supports, Articulating PAS4A/PAL4A	92
Front Rigging - Pivot/ Slide Tube and Footplate - PW93ST	100
Front Rigging - Pivot/ Slide Tube and Footplate - P904, PAL4A, PAS4A	104
Front Rigging - Pivot/ Slide Tube and Footplate - P93M	102
Front Rigging - Pivot/ Slide Tube and Footplate - PW93, PW93E	98
Front Rigging - Reference Chart	79
Headrest and Attaching Hardware - Sling Seat Only	21
Oxygen Holder Assembly Kit - Sling Seats Only	41
Packaging, Literature and Decals - Sling Seat with Shrouds and Captain Seat	10
Packaging, Literature, and Decals - Sling Seat without Shrouds	8
Shroud Covers - After 2/29/00	71
Shroud Covers - Before 3/1/00	67
Shroud Covers R2 jr. - After 2/29/00	77
Shroud Covers R2 jr. - Before 3/1/00	75
Side Frames and Hardware	12
Solid Folding Seats and Inserts	26

TABLE of CONTENTS

Description	Page Number
Upholstery, Carrying Pocket and Seat/Chest Positioning Straps	23

Frame Finishes, Touch-Up Paint and Upholstery Options

Frame Finishes and Touch-Up Paint

Color Number	Part Number	Bottle Size	Color
02P	1031452	.6 oz.	Pink Pearl
06P	1031454	.6 oz.	Super Teal
08P	1031456	.6 oz.	Deep Purple
17P	1046319	.6 oz.	Cobalt Blue
22P	1033376	.6 oz.	Anthracite
24P	1031450	.6 oz.	Wet Black
29P	1031447	.6 oz.	White
30P	1031448	.6 oz.	Sunny Yellow
33P	1031455	.6 oz.	Red
34P	1046327	.6 oz.	Flat Black
61P	1046321	.6 oz.	Electric Red
62P	1046320	.6 oz.	Electric Blue
64P	1046324	.6 oz.	Metallic Blue
69P	1101320-NLA	.6 oz.	Teflon Black
71P	N/A	N/A	Silver Vein
80P	1073892	.6 oz.	Evergreen with Navy
81P	1073893	.6 oz.	Dark Olive with Copper
82P	1073894	.6 oz.	Fruit Punch with Fucshia
83P	1073895	.6 oz.	Royal Blue with Grape
84P	1073896	.6 oz.	Lavender
101P	1101325	.6 oz.	Jeweled Green
102P	1101327	.6 oz.	Denim Blue
103P	1101324	.6 oz.	Mocha Frost
104P	1101316	.6 oz.	Electric Teal
105P	1101326	.6 oz.	Midnight Blue

Frame Finishes, Touch-Up Paint and Upholstery Options

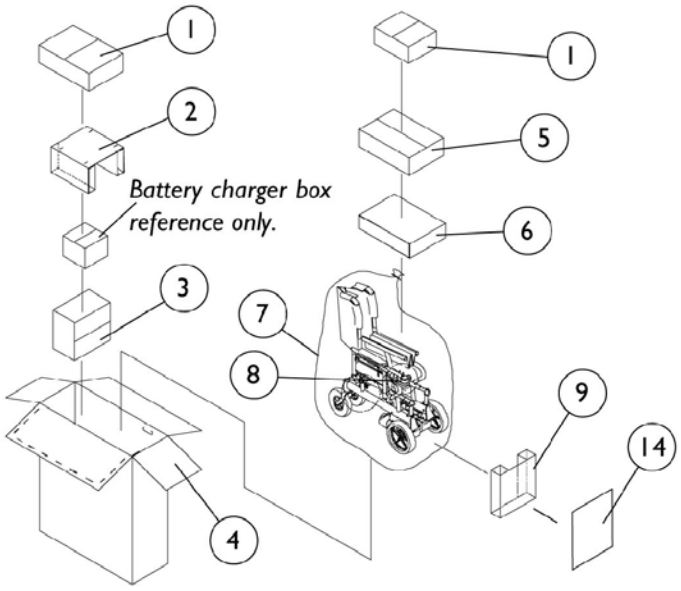
Sparkle Frame Finishes

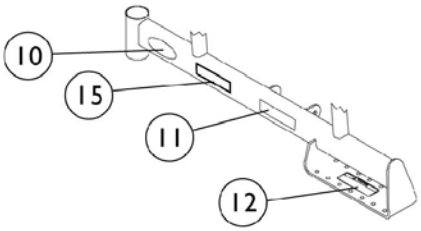
Color Number	Color
72P	Twilight Sparkle
73P	Gold Sparkle
74P	Green Sparkle
75P	Blue Sparkle
76P	Red Sparkle
88P	Wet Black with Twilight Sparkle

Upholstery Options

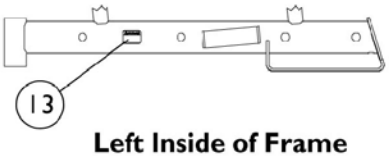
Vinyl Colors	Nylon Colors
U67 Black	U240 Black
U75 Dove Grey	
U85 Dark Blue	
U86 Ruby	
U97 Sky Blue	
U88 Camel	

Packaging, Literature and Decals
Sling Seat without Shrouds





Right/Left Outside of Frame



Left Inside of Frame

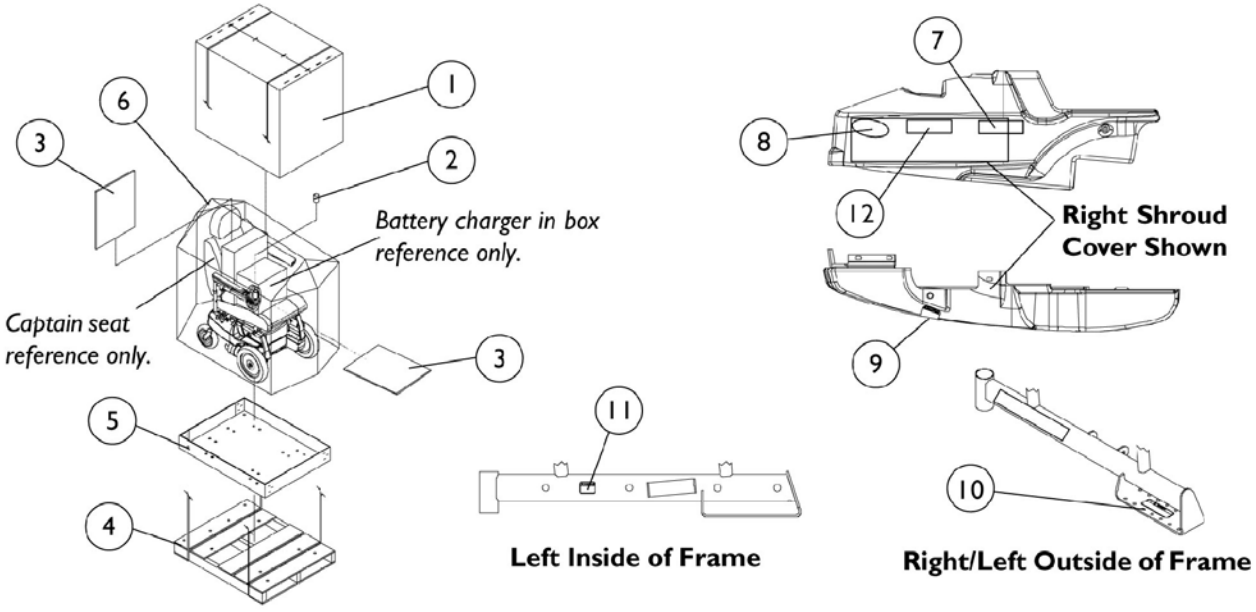
Packaging, Literature and Decals
Sling Seat without Shrouds

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		40131X148	Carton, Hardware	1	1
2		1074356-NLA	Insert, Carton	1	1
3		1023167	Carton, Battery Boxes	1	1
4		1074355-NLA	Carton	1	1
5		40131X011	Carton, Front Riggings	1	1
6		1058833	Carton	1	1
7		1015592	Bag, Poly (72" L x 35" W x 19" D)	1	1
8		1043198-NLA	Tube, Paper	1	1
9		1080739-NLA	Insert, Carton	1	1
10	A	1090146	Decal, Invacare 3-D Logo (1-19/32" L)	1	2
11	A,B	1095224	Decal, Model, Ranger II (Black)	1	2
11	A	1095225	Decal, Model, Ranger II (White)	1	2
11	A,B	1095232	Decal, Model, Excel (Black)	1	2
11	A	1095233	Decal, Model, Excel (White)	1	2
11		1090273	Decal, Model, R2 jr.	1	2
12		1080267	Decal, Warning Motor	1	2
13		1080266	Decal, Warning Controller	1	1
14	D	40131X039	Insert	1	1
15		1097104-NLA	Decal, 250-S	1	2
	C	1080265-NLA	Decal, FWD	1	2
	C	1065145-NLA	Decal, Virtual Service	1	2
	C	1035900	Decal, Transportation	1	1
	C	1119281	Name Plate, Patent Numbers	1	1
	C	1095272	Manual, Instruction MKIV RII	1	1
	C	1080722	Owner's Manual - Ranger II and R2 jr.	1	1
	C	1080737	Owner's Manual - P9000 and Excel	1	1

NOTE: A - Invacare logo added and model decals changed 1/11/00. When replacing side frames before 1/11/00 order decals in pairs to match.
B - Used for chairs with frame colors 02P, 29P, 30P, and 84P only.
C - Not Shown
D - R2 jr.

NOTE: When adjusting or replacing parts, please refer to the Owner's Manual for assistance.

Packaging, Literature and Decals
Sling Seat with Shrouds and Captain Seat



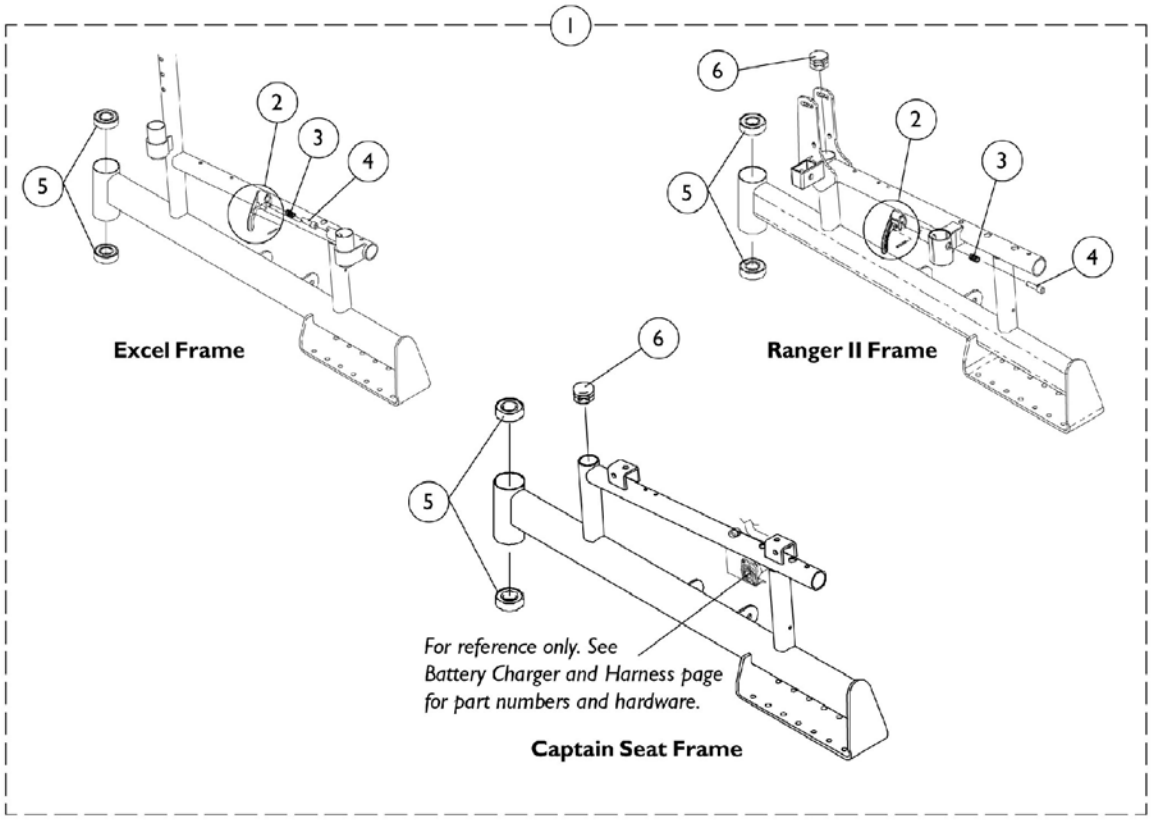
Packaging, Literature and Decals
Sling Seat with Shrouds and Captain Seat

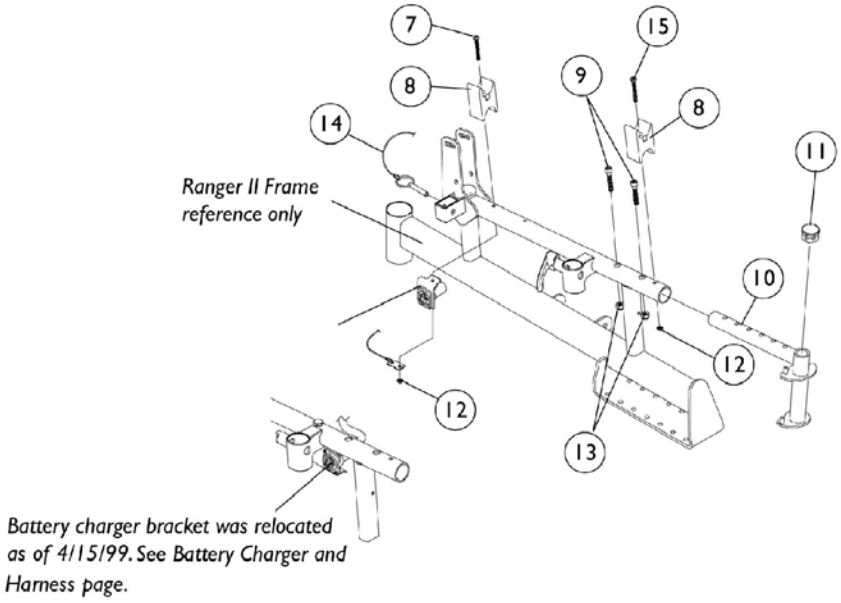
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1030364	Carton, Cover	1	1
1	C	1031682	Carton, Cover	1	1
2		1043198-NLA	Tube, Paper	1	1
3		40131X161	Insert, Plain Pad	1	1
4	E	See Note	See Footnote	--	--
5		1030362	Carton, Tray	1	1
6		1015592	Bag, Poly (72" L x 35" W x 19" D)	1	1
7	A	1095225	Decal, Model, Ranger II (White)	1	2
7	A	1095233	Decal, Model, Excel (White)	1	2
7		1090273	Decal, Model, R2 jr.	1	2
8	A	1095489	Decal, Invacare 3-D Logo (2-1/2" L)	1	2
9	C	1076575-NLA	Decal, Caution, Limit Switch	1	1
10		1080267	Decal, Warning Motor	1	2
11		1080266	Decal, Warning Controller	1	1
12		1097104-NLA	Decal, 250-S	1	2
	B	1080265-NLA	Decal, FWD	1	2
	B	1065145-NLA	Decal, Virtual Service	1	2
	B	1035900	Decal, Transportation	1	1
	B	1119281	Name Plate, Patent Numbers	1	1
	B	1095272	Manual, Instruction MKIV RII	1	1
	B	1080722	Owner's Manual - Ranger II and R2 jr.	1	1
	B	1080737	Owner's Manual - P9000 and Excel	1	1
	B	1085398	Service Manual - Ranger II & R2 jr.	1	1
	B	1085397	Service Manual - Excel	1	1

NOTE: A - Invacare logo added and model decals changed 1/11/00. When replacing shrouds before 1/11/00 order decals in pairs to match.
B - Not Shown.
C - Used on High Back Captain Seats Only.
D - Sling Seat and Low Back Captain Seat.
E - Wooden skid is not provided.

NOTE: When adjusting or replacing parts, please refer to your Owner's Manual for assistance.

Side Frames and Hardware



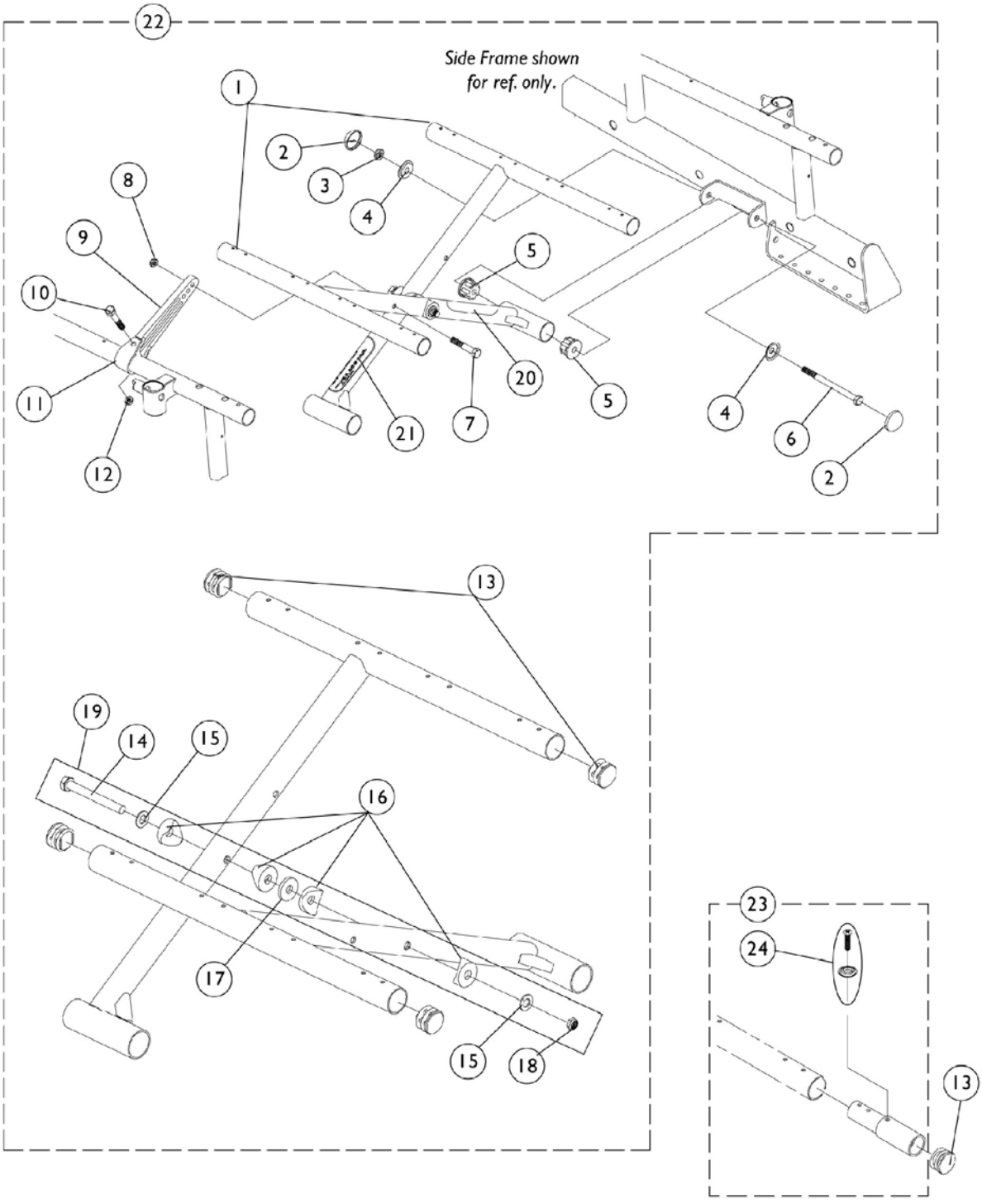


Side Frames and Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,B,C	8881080260	Side Frame with Hardware, Right	1	2
1	A,B,C	8881080261	Side Frame with Hardware, Left	1	2
1	A,B,D	8881080734	Side Frame with Hardware, Right	1	2
1	A,B,D	8881080735	Side Frame with Hardware, Left	1	2
1	A,B,E	8881085258	Side Frame with Hardware, Right	1	2
1	A,B,E	8881085259	Side Frame with Hardware, Left	1	2
2		1090768	Kit, Lock Handle w/Rivets (both LT & RT side)	2	1
3		47471X074	Spring, Arm Lock	1	2
4		1028594	Pin, Arm Lock	1	2
5		40117X006	Bearing (5/8")	1	4
6		1029501	Plug Button, Black (1")	1	2
7		1085124	Screw, Socket Flat Head (#10-32 x 1-3/4")	1	4
8		1007541	Seat Guide	1	4
9		7930304	Screw, Socket Head (1/4-20 x 1-1/4")	25	1
10		1060099	Front Rigging Hanger - Right	1	2
10		1060100	Front Rigging Hanger - Left	1	2
11		1027097	Plug Button, Black (3/4")	1	2
12		1025731	Locknut (#10-32)	1	3
13		7930333	Locknut (1/4-20)	25	1
14		1068039	Pin, Pull	1	2
15		1085134	Screw, Socket Flat Head C'Sunk (#10-32 x 1-5/8")	1	2

NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Decals not included with frames. See page titled, "Packaging, Literature and Decals."
C - Ranger II.
D - Excel.
E - Captain Seat.

Crossbraces, Seat Extensions and Hardware
Sling Seat



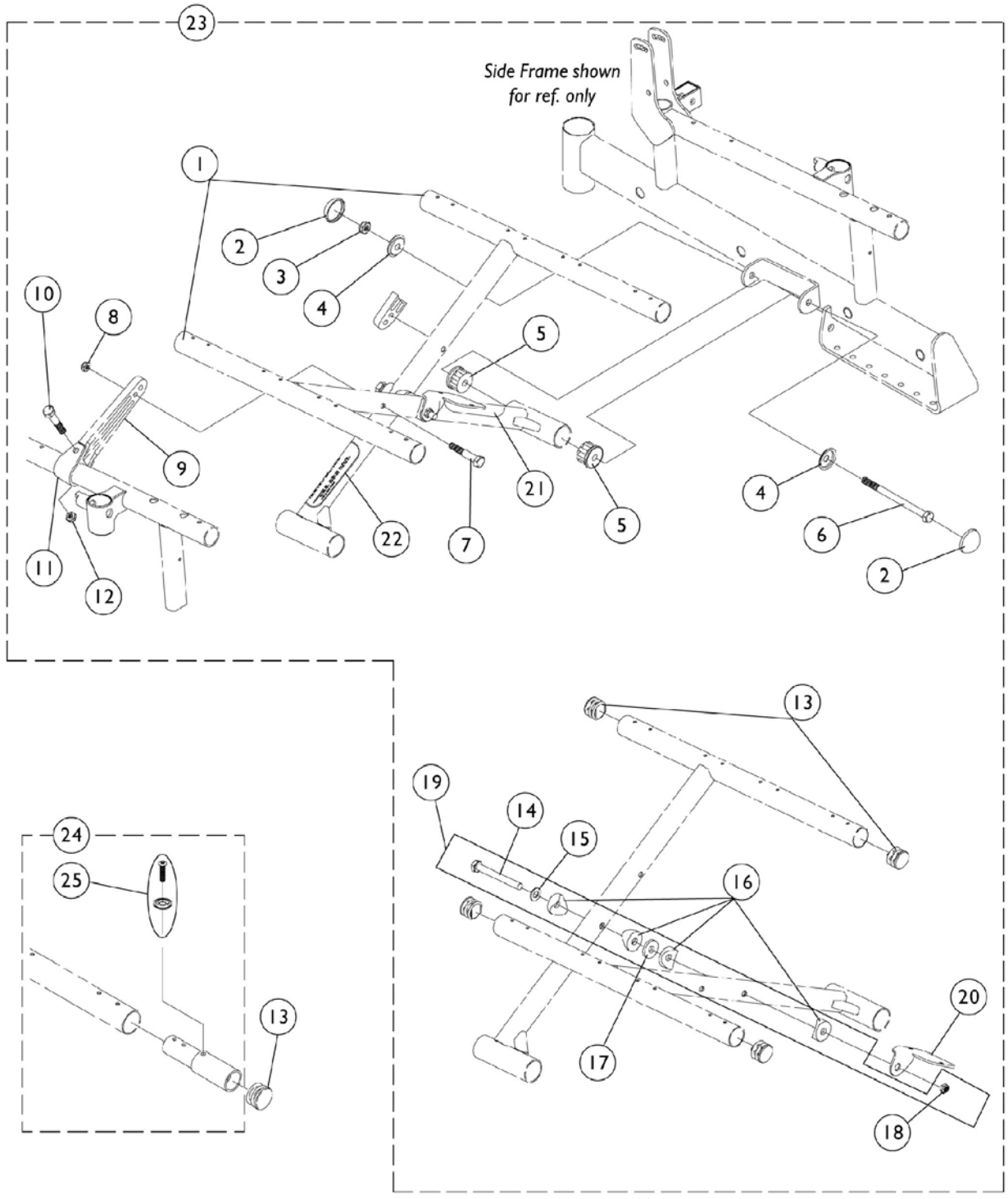
Crossbraces, Seat Extensions and Hardware

Sling Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080244	Crossbrace Assembly, 16" Wide, Right	1	2
1	A	1080245	Crossbrace Assembly, 16" Wide, Left	1	2
1	A	1080246	Crossbrace Assembly, 18" Wide, Right	1	2
1	A	1080247	Crossbrace Assembly, 18" Wide, Left	1	2
1	A	1080248	Crossbrace Assembly, 20" Wide, Right	1	2
1	A	1080249	Crossbrace Assembly, 20" Wide, Left	1	2
2		1028835	Cap, Hub (Black)	1	4
3		7930363	Package, Locknut (5/16"-24)	25	1
4		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
5		1056708	Plug, Pivot Tube	1	4
6		1038179	Screw, Hex Head (5/16-24 x 4-1/4")	1	2
2-6	B,C	1057830	Hardware, Crossbrace Pivot Tube	2	1
7		1024793	Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		7930333	Locknut (1/4-20)	25	1
9		1057382	Pivot Link, 16-18" Wide - Hemi	1	2
9		1057383	Pivot Link, 19-20" Wide - Hemi	1	2
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
11		1057828	Strap, Pivot Link	1	2
12		7930323	Package, Locknut (1/4-20)	25	1
13		1029501	Plug Button, Black (1")	1	4
14		1025705	Screw, Hex Head (5/16-24 x 3-1/4")	1	1
15		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
16		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
17		7930313	Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
18		7930330	Locknut (5/16-24)	25	1
19	D	1086180	Hardware, Crossbrace Center Bolt Attaching	1	1
20		1035900	Decal, Transportation	1	1
21		1119281	Name Plate, Patent Numbers	1	1
22	F,G	1080728	Hardware, Crossbrace	1	1
23	H	1058616	Seat Extension Kit - 1" (Pair)	2	1
23	I	1058617	Seat Extension Kit - 2" (Pair)	2	1
24		1026298	Screws with Washers (#10 x 7/8")	2	1
24		1076284	Screw w/ washer (#10 x 7/8")	1	2
24	E	40163X003	Screw, Phillips Pan Head (#10 X 5/8")	1	2

NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals."
B - Not Shown.
C - Includes Items 2-6.
D - Includes items 14-18.
E - Solid Folding Seats Only.
F - Less items 1-9.
G - Includes items 2-8, 10-18, 20 and 21.
H - For 17" Depth.
I - For 18" Depth.

Crossbraces, Seat Extensions and Hardware
R2 jr. - 14" Wide - Sling Seat



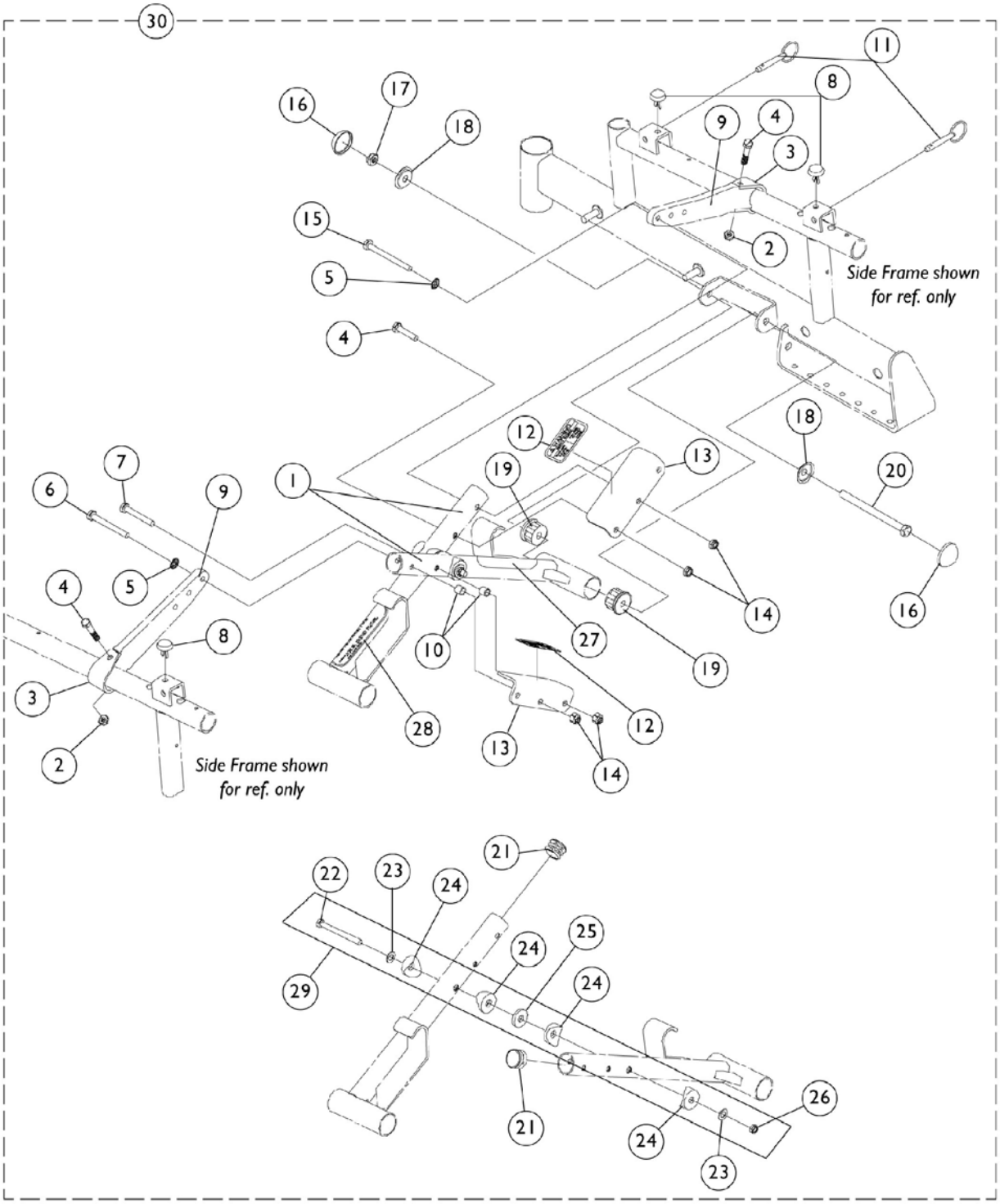
Crossbraces, Seat Extensions and Hardware

R2 jr. - 14" Wide - Sling Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080253	Crossbrace Assembly, 14" Wide, Right	1	2
1	A	1080254	Crossbrace Assembly, 14" Wide, Left	1	2
2		1028835	Cap, Hub (Black)	1	4
3		7930363	Package, Locknut (5/16"-24)	25	1
4		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
5		1056708	Plug, Pivot Tube	1	4
6		1038179	Screw, Hex Head (5/16-24 x 4-1/4")	1	2
2-6	B,E	1057830	Hardware, Crossbrace Pivot Tube	2	1
7		1024793	Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		7930333	Locknut (1/4-20)	25	1
9		1057381	Pivot Link, 14-15" Wide - Hemi	1	2
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
11		1057828	Strap, Pivot Link	1	2
12		7930323	Package, Locknut (1/4-20)	25	1
13		1029501	Plug Button, Black (1")	1	4
14		1025705	Screw, Hex Head (5/16-24 x 3-1/4")	1	1
15		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	1
16		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
17		7930313	Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
18		7930330	Locknut (5/16-24)	25	1
19	C	1086180	Hardware, Crossbrace Center Bolt Attaching	1	1
20		1086176	Bracket, Wire Connector Support	1	1
21		1035900	Decal, Transportation	1	1
22		1119281	Name Plate, Patent Numbers	1	1
23	D	1086177-NLA	Crossbrace Hardware	1	1
24	F	1058616	Seat Extension Kit - 1" (Pair)	2	1
24	G	1058617	Seat Extension Kit - 2" (Pair)	2	1
25		1026298	Screws with Washers (#10 x 7/8")	2	1
25		1076284	Screw w/ washer (#10 x 7/8")	1	2

NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals."
B - Not Shown.
C - Includes Items 14-18.
D - Includes Items 2-8, 10-18, 20-22, Less Items 1 and 9.
E - Includes Items 2-6.
F - For 17" Depth.
G - For 18" Depth.

Crossbraces and Hardware
Captain Seat

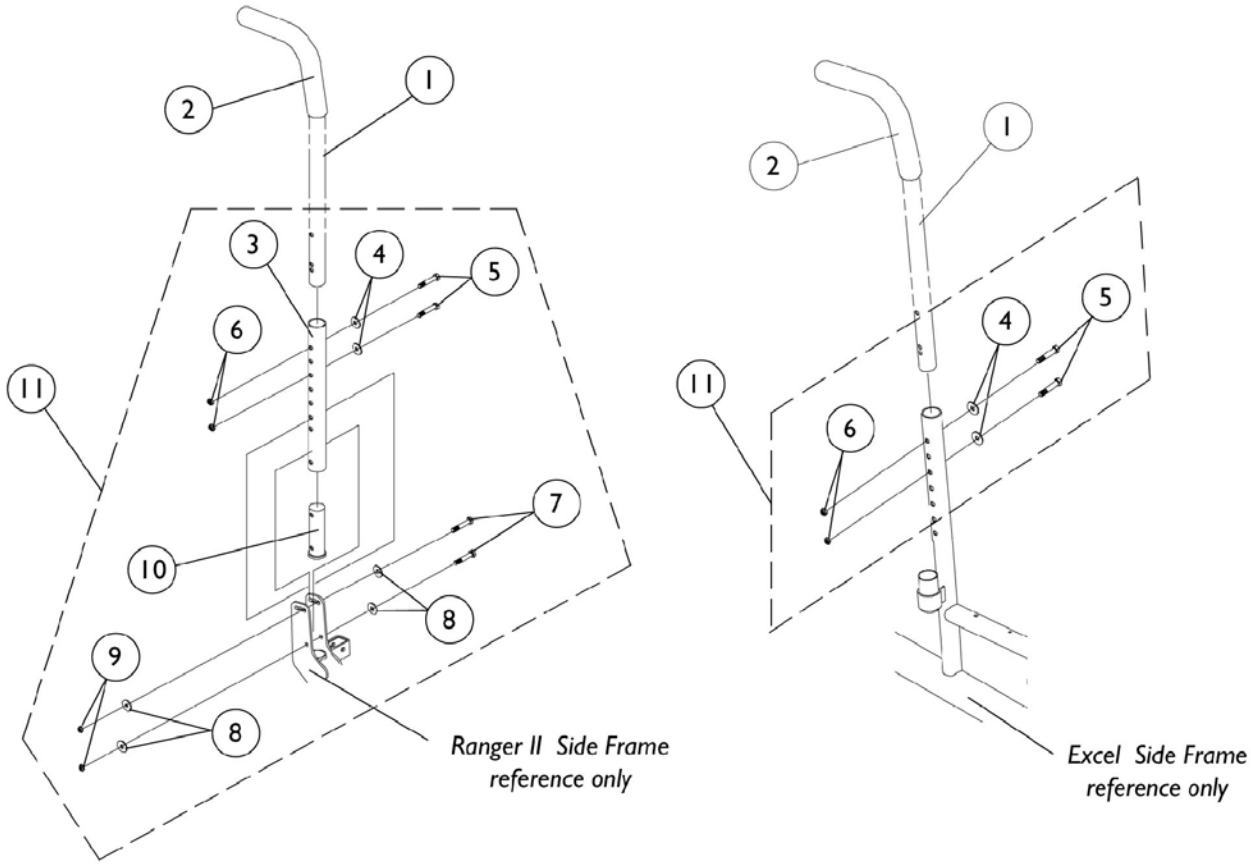


Crossbraces and Hardware
Captain Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1086798	Crossbrace, Captain Seat (18" Wide), Right	1	2
1	A	1086799	Crossbrace, Captain Seat (18" Wide), Left	1	2
2		7930323	Package, Locknut (1/4-20)	25	1
3		1057828	Strap, Pivot Link	1	2
4		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	2
6		1026154	Screw, Hex Head (1/4-20 x 2-1/4")	1	1
7		1024793	Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		1071604	Bumper, Nylon	1	4
9		1057382	Pivot Link, 16-18" Wide - Hemi	1	2
10		1031884	Bushing (9/32 x 3/8 x 11/32") Black or Color Chairs	1	2
11		1071602	Pin, Anchor (Captain Seat)	1	4
12		1074142	Decal, Crossbrace	1	2
13	A	1086800	Bracket, Black Push	1	2
14		7930333	Locknut (1/4-20)	25	1
15		1024796	Screw, Hex Head (1/4-20 x 2")	1	1
16		1028835	Cap, Hub (Black)	1	4
17		7930363	Package, Locknut (5/16"-24)	25	1
18		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
19		1056708	Plug, Pivot Tube	1	4
20		1038179	Screw, Hex Head (5/16-24 x 4-1/4")	1	2
16-20	B,C	1057830	Hardware, Crossbrace Pivot Tube	2	1
21		1029501	Plug Button, Black (1")	1	2
22		1025705	Screw, Hex Head (5/16-24 x 3-1/4")	1	1
23		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
24		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
25		7930313	Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
26		7930330	Locknut (5/16-24)	25	1
27		1035900	Decal, Transportation	1	1
28		1119281	Name Plate, Patent Numbers	1	1
29	D	1086180	Hardware, Crossbrace Center Bolt Attaching	1	1
30	E	1082683	Hardware, Crossbrace	1	1

NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals."
B - Not Shown.
C - Includes Items 16-20.
D - Includes Items 22-26.
E - Includes Items 2-8 and 10-28. Less items 1 and 9.

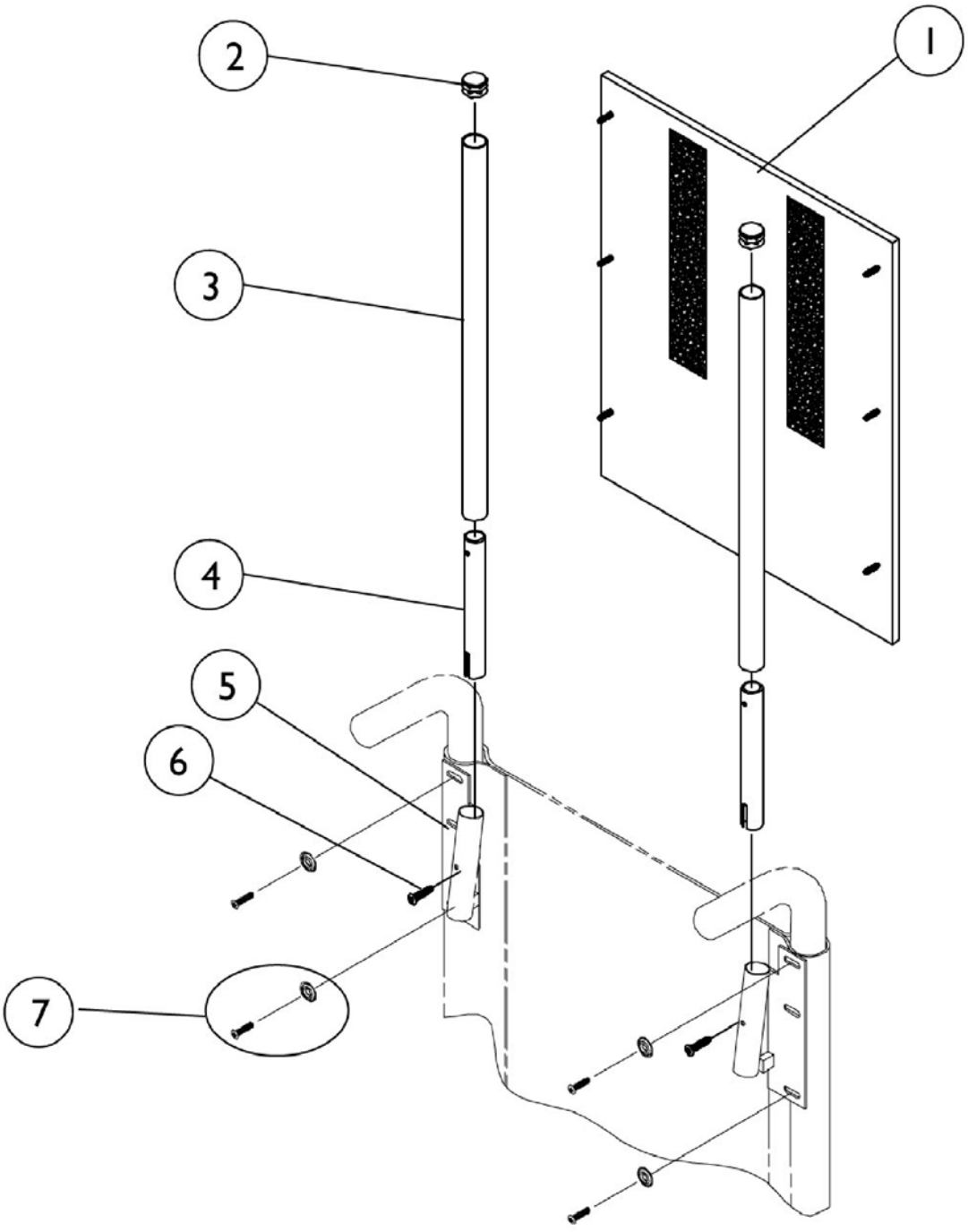
Back Canes and Attaching Hardware
Sling Seat Only



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1028372	Back Cane Assembly - 10 Degree Bend	1	2
2		1006229	Grip, Foam (8")	1	2
3		1071565-NLA	Tube, Rear Upright, Black	1	2
4		1026907	Washer (1/4 x 1/2 x 1/16")	1	4
5		1057955	Screw, Hex Head (1/4-20 x 1-1/4")	1	4
6		7930323	Package, Locknut (1/4-20)	25	1
7		1055348	Screw, Hex Head (1/4-28 x 1-3/4")	1	4
8		1026900	Washer (1/4 x 23/32 x 1/16")	1	8
9		7930345	Locknut (1/4-28)	25	1
10		1071488-NLA	Insert, Threaded	1	2
11	A	1079389	Hardware, Back Cane Mounting, Ranger II (Pair)	2	1
11	B	1057956	Hardware, Back Cane Mounting, Excel (Pair)	2	1

NOTE: A - Includes items 3-10.
B - Includes Items 4-6.

Headrest and Attaching Hardware
Sling Seat Only



Headrest and Attaching Hardware
Sling Seat Only

Item #1 Headrest Upholstery

Width	Nylon	Vinyl
14" W	8881052586	8881054633 See Note(s) A
16" W	8881052588	8881054638 See Note(s) A
18" W	8881052590	8881054637 See Note(s) A
20" W	8881052592	8881054639 See Note(s) A

NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		See Chart	Item #1 Headrest Upholstery	1	1
2		1027095	Plug Button, Black (7/8")	1	2
3		1054605	Tube, Headrest Extension	1	2
4		1028756	Tube, Insert	1	2
5		1028752	Bracket, Headrest, Right	1	2
5		1028753	Bracket, Headrest, Left	1	2
6		1028484	Screw, Phillips Pan Head Tap (#10-32 x 1/2")	1	2
7		1076284	Screw w/ washer (#10 x 7/8")	1	4

Upholstery, Carrying Pocket and Seat/Chest Positioning Straps

Seat/Chest Positioning Straps

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A	1034625.	0	1	1
	B	1034752	Positioning Strap, Seat/Chest w/ Airline Style Buckle (Eyelet to Eyelet Length 61")	1	1
	C	1034753	Positioning Strap, Seat/Chest w/Airline Style Buckle (Eyelet to Eyelet Length 70")	1	1
	A	1004310	Positioning Strap, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 48")	1	1
	B	1034625	Positioning Strap, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 61")	1	1
	C	1034622	Positioning Strap, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 69")	1	1
	A	1034744	Positioning Strap, Seat/Chest w/ Hook and Loop Style Buckle (Eyelet to Eyelet Length 45")	1	1
	B	1034745	Positioning Strap, Seat/Chest w/ Hook and Loop Style Buckle (Eyelet to Eyelet Length 61")	1	1

NOTE: A - 14-18" Wide Chairs.
B - 20" Wide Chairs.
C - 22" Wide Chairs.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A	See Chart	Seat Upholstery - Nylon (Standard on RII and Excel)	1	1
	A	See Chart	Seat Upholstery - Vinyl (Option on RII and Excel)	1	1
	A	See Chart	Back Upholstery (Nylon and Vinyl)	1	1
	A	See Chart	Attaching Hardware - Back and Seat Upholstery	1	1
	A	See Chart	Carrying Pocket (Nylon and Vinyl)	1	1

NOTE: A - Not Shown

Seat Upholstery - Nylon
Standard on RII and Excel

Width	16" Deep	17" Deep	18" Deep
14" W	1016315	1016316	1016317
16" W	1016321	1016322	1016323
18" W	1016327	1016328	1016329
20" W	1017643	1017646	1017649

Upholstery, Carrying Pocket and Seat/Chest Positioning Straps

Seat Upholstery - Vinyl (Option on RII and Excel)

Width	16" Deep	17" Deep	18" Deep
14" W	8881024417 See Note(s) A	8881024418 See Note(s) A	8881024419 See Note(s) A
16" W	8881024423 See Note(s) A	8881024424 See Note(s) A	8881024134 See Note(s) A
18" W	8881024132 See Note(s) A	8881024137 See Note(s) A	8881024138 See Note(s) A
20" W	8881024129 See Note(s) A	8881024141 See Note(s) A	8881024142 See Note(s) A

NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paints and Upholstery Options."

Upholstery, Carrying Pocket and Seat/Chest Positioning Straps

Back Upholstery

Width	Nylon	Vinyl See Note(s) B
14" W	1060611	8881058352 See Note(s) A
16" W	1060612	8881058353 See Note(s) A
18" W	1060613	8881058354 See Note(s) A
20" W	1060614	8881058355 See Note(s) A

NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paints and Upholstery Options."
B - Vinyl is optional on RII and Excel models

Carrying Pocket

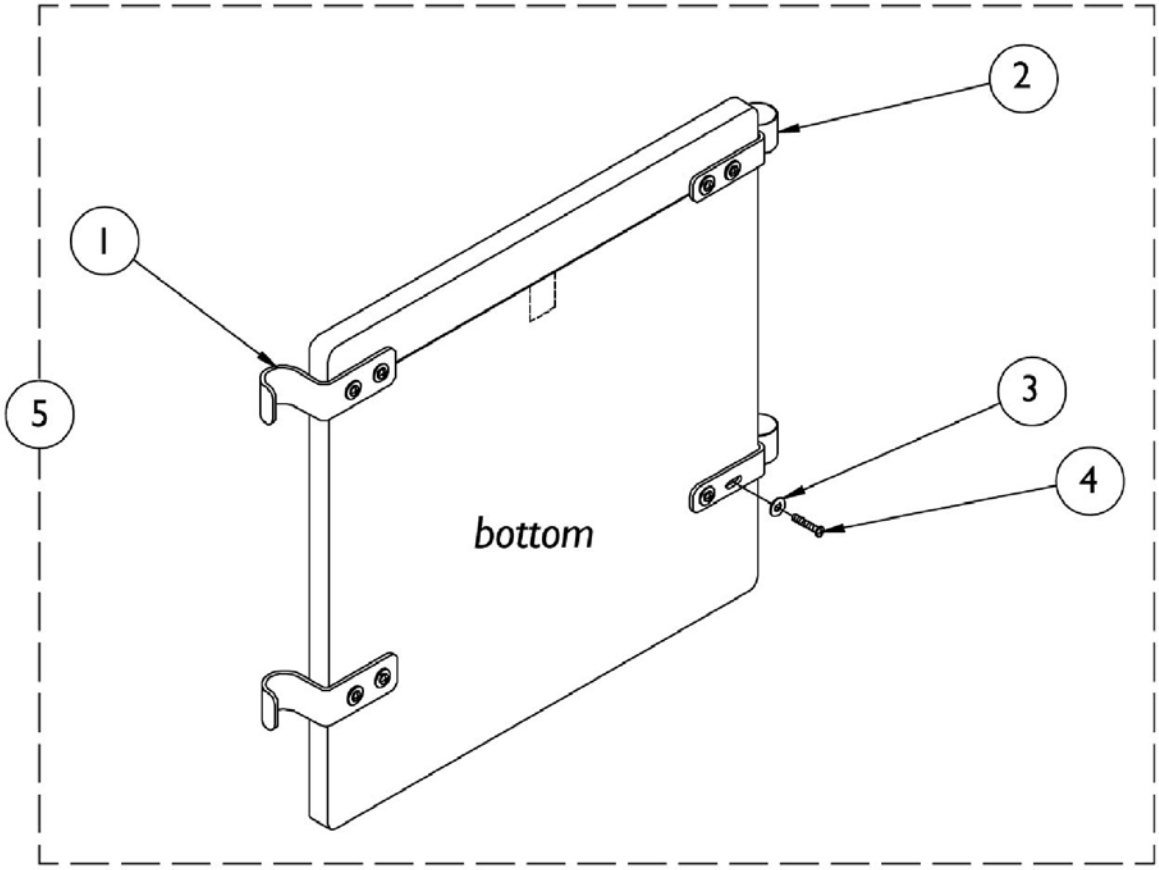
Width See Note(s) B	Nylon	Vinyl See Note(s) B
14"	8881047956	8881047954 See Note(s) A
16-20"	8881047959	8881047957 See Note(s) A

NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Vinyl is optional on RII and Excel models

Attaching Hardware - Back and Seat Upholstery

Back Upholstery Hardware	Seat Upholstery Hardware
1029850	1057950
Package consists of: (2) ea. Screw with Washer (10 x 7/8") (2) ea. Cable Ties	Package consists of: (8) ea. Screw with Washer (10 x 7/8")

Solid Folding Seats and Inserts



Solid Folding Seats

Solid Folding Seats and Inserts

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1016771	Hook, Seat	1	2
2		1016770	Bracket, Seat	1	2
3		1013218	Washer (#10 Flat)	1	8
4		7930360	Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
5	A	8881110378	Solid Folding Seat w/Hdwr (16" W x 16" D) - Vinyl	1	1
5	A	8881110379	Solid Folding Seat w/Hdwr (18" W x 16" D) - Vinyl	1	1
5	A	8881110372	Solid Folding Seat w/Hdwr (20" W x 16" D) - Nylon	1	1
5	A	8881035936	Solid Folding Seat w/ Hardware (20" W x 18" D), Nylon	1	1
	B	See Chart	Solid Seat Inserts	1	1

NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Not Shown

NOTE: Solid Folding Seats measure two inches narrower than actual seat width.

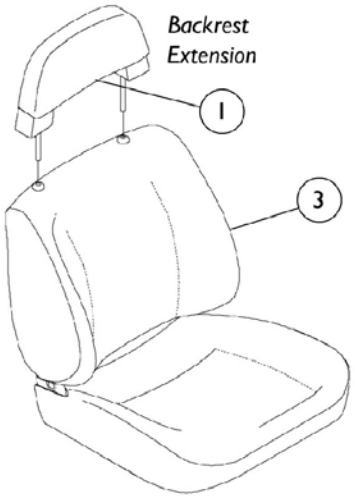
Solid Seat Inserts

Chair	Upholstery Type	Upholstery Type
Width x Depth	Nylon	Vinyl
16 x 16"	8881052563 See Note(s) A	8881034648 See Note(s) A
16 x 17"	8881052564 See Note(s) A	8881034657 See Note(s) A
16 x 18"	8881052565 See Note(s) A	8881034666 See Note(s) A
18 x 16"	8881052569 See Note(s) A	8881034650 See Note(s) A
18 x 17"	8881052570 See Note(s) A	8881034659 See Note(s) A
18 x 18"	8881052571 See Note(s) A	8881034668 See Note(s) A
20 x 16"	8881052575 See Note(s) A	8881034652 See Note(s) A
20 x 17"	8881052576 See Note(s) A	8881034661 See Note(s) A
20 x 18"	8881052577 See Note(s) A	8881034670 See Note(s) A

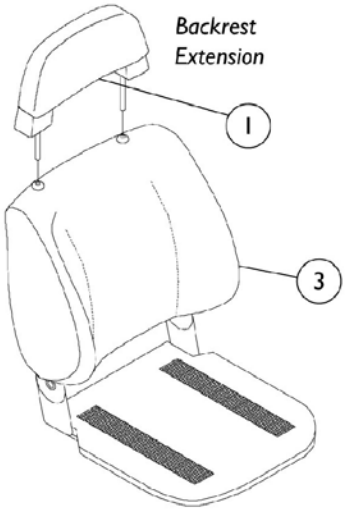
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."

NOTE: Solid Folding Seats measure two inches narrower than actual seat width.

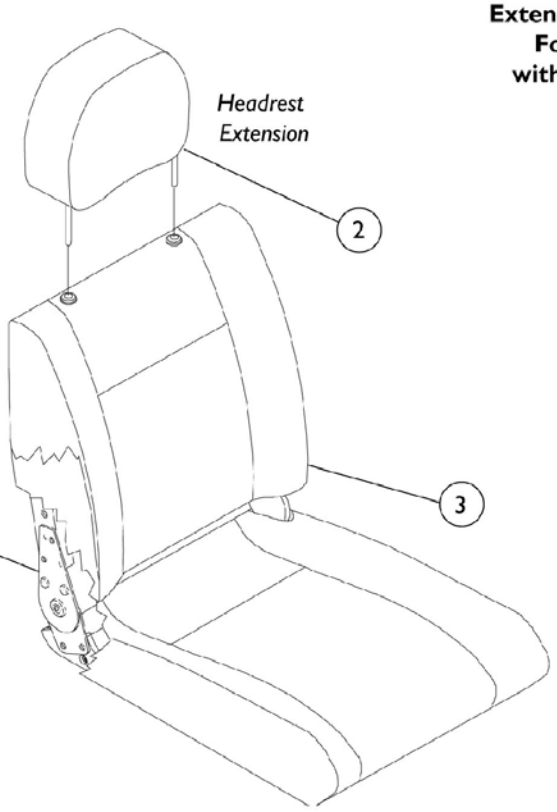
Captain Seat Assembly
Before 9/1/02



Extended Back 18" Wide



Extended Back, Forward Folding 18" Wide with Solid Seat Base



NOTE: *High back 18" wide captain seat includes the actuator hardware.*

High Back 18" Wide with Full Recline

Captain Seat Assembly
Before 9/1/02

Item #1 - Extended Back Backrest

Extended Back Backrest (E.B.)	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
E.B. Before 8/4/99 and Forward Folding Before 5/12/00	1078997-NLA See Note(s) A	N/A	N/A
E.B. After 8/3/99 and Forward Folding After 5/11/00	1090374-NLA See Note(s) B	N/A	N/A
E.B. Before 7/22/99	N/A	1081285 See Note(s) A	1086109 See Note(s) A
E.B. After 7/21/99	N/A	1090375-NLA See Note(s) B	1090376-NLA See Note(s) B

NOTE: A - 9" Backrest Post Spacing.
B - 4-3/4" Backrest/Headrest Post Spacing.

Item #2 - High Back Headrest

Headrest	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
Headrest, High Back Before 8/16/99	1071576-NLA See Note(s) C	N/A	N/A
Headrest, High Back After 8/15/99	1090379-NLA See Note(s) B	N/A	N/A
Headrest, High Back	N/A	1090380-NLA See Note(s) C	N/A

NOTE: B - 4-3/4" Backrest/Headrest Post Spacing.
C - 4-23/32" Headrest Post Spacing.

Captain Seat Assembly
Before 9/1/02

Item #3 - 18" Wide Extended Back Captain Seat

Captain Seat - Extended Back	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
Before 8/4/99	1078965-NLA See Note(s) D	N/A	N/A
After 8/3/99	1090371-NLA See Note(s) D, E	N/A	N/A
Before 7/22/99	N/A	1081284-NLA See Note(s) D	1086108-NLA See Note(s) D
After 7/21/99	N/A	1090372-NLA See Note(s) D, E	1090373-NLA See Note(s) D, E
and Forward Folding Before 5/12/00	1085104-NLA See Note(s) D	N/A	N/A
and Forward Folding After 5/11/00	1090370-NLA See Note(s) D, E	N/A	N/A

NOTE: D - For Captain Seats marked NLA, use Captain Seats dated after 8/31/02 as replacements.
E - Backrest/Headrest post spacing changed. When replacing seat assemblies made before the date specified, a new style backrest or headrest must be ordered as well to match.

NOTE: When converting between high back and extended back captain seats, the wiring harness will also need to be converted. See page titled "Battery Charger and Harnesses".

Item #3 - 18" Wide High Back Captain Seat

Captain Seat - High Back	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
18" Wide High Back Before 8/16/99	1070456-NLA See Note(s) F, D	N/A	N/A
18" Wide High Back After 8/15/99	1091068-NLA See Note(s) F, E, D	N/A	N/A
18" Wide High Back	N/A	1091069-NLA See Note(s) D, F	N/A

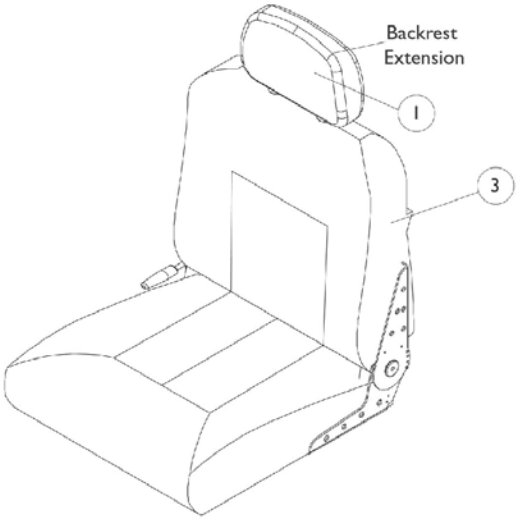
NOTE: D - For Captain Seats marked NLA, use Captain Seats dated after 8/31/02 as replacements.
E - Backrest/Headrest post spacing changed. When replacing seat assemblies made before the date specified, a new style backrest or headrest must be ordered as well to match.
F - High back 18" wide captain seats includes all actuator attaching hardware (LESS) the limit switch sensor harness #1074983. See page titled "Captain Seat Frame and Actuator Hardware".

NOTE: When converting between high back and extended back captain seats, the wiring harness will also need to be converted. See page titled "Battery Charger and Harnesses".

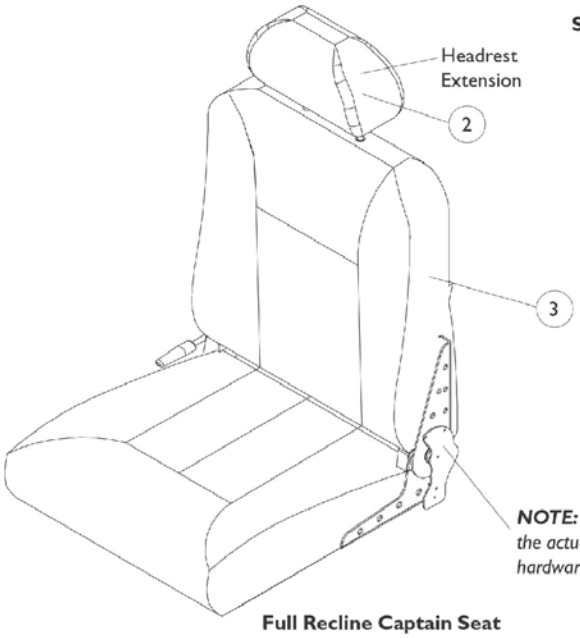
Captain Seat Assembly

After 8/31/02

Captain Seats recline approximately 90° - 114° for semi recline backs and 90° - 170° for full recline back models. Adjustable depths are (16, 17, 18" deep for 18" wide seats).
Recline release levers are standard on the right side. Semi recline left side release levers can be ordered as a special with a new captain seat. All full recline captain seats must be ordered as a "special order" to have the limit switch sensor actuator hardware mounted on the right side.



Semi Recline Captain Seat



***NOTE:** Full recline captain seats **do not include** the actuator hardware. See seat frame and actuator hardware page.*

Full Recline Captain Seat

Captain Seat Assembly

After 8/31/02

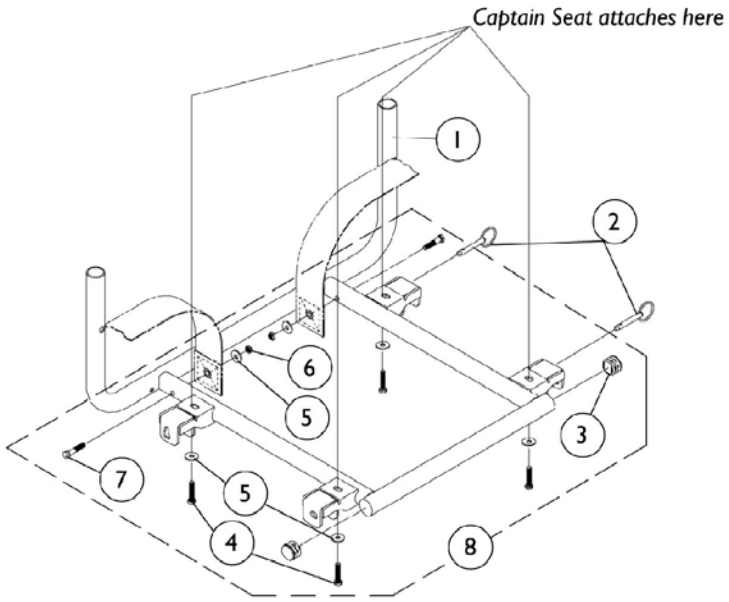
Captain Seats recline approximately 90° - 114° for semi recline backs and 90° - 170° for full recline back models. Adjustable depths are (16, 17, 18" deep for 18" wide seats).
Recline release levers are standard on the right side. Semi recline left side release levers can be ordered as a special with a new captain seat. All full recline captain seats must be ordered as a "special order" to have the limit switch sensor actuator hardware mounted on the right side.

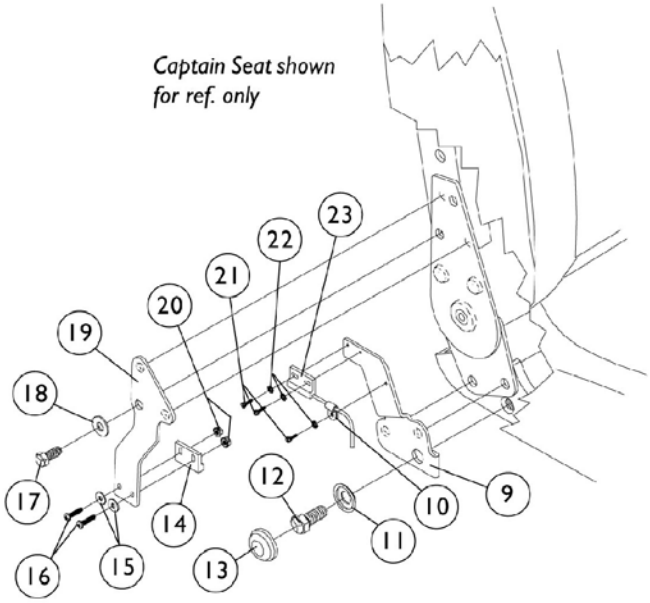
Backrest/Headrest Extensions and Captain Seat Assemblies

Item Number	Description	All Grey Fabric	All Grey Vinyl	All Tan Vinyl
1	Backrest - For Semi Recline	1106969	1108408	1106968
2	Headrest - For Full Recline	1106967	1108409	1106966
3	18" Wide - Semi Recline with Backrest	1109254	1109242	1109248
3	18" Wide - Full Recline with Backrest	1109257	1109245	1109251

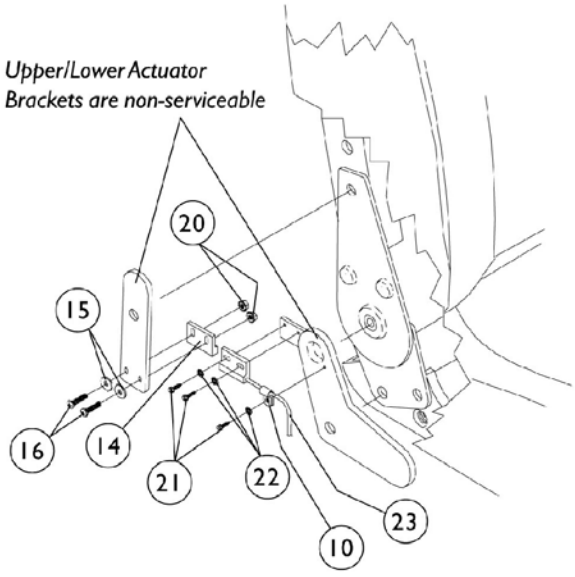
NOTE: When converting from a semi recline to a full recline captin seat, a limit switch sensor harness part # 1074983 must be ordered as well. See page titled "Captain Seat Frame and Actuator Hardware.
NOTE: Actuator mounting hardware is not included with captain seat, see page titled, "Captain Seat Frame and Actuator Hardware."
NOTE: New seat mounting screws #1025713 in (4) are required when converting a captain seat available before 9/1/02 to a captain seat available after 8/31/02.

Captain Seat Frame and Actuator Hardware
Before 9/1/02





Actuator Attaching Hardware
Before 8/16/99
(High Back 18" Wide Models Only)



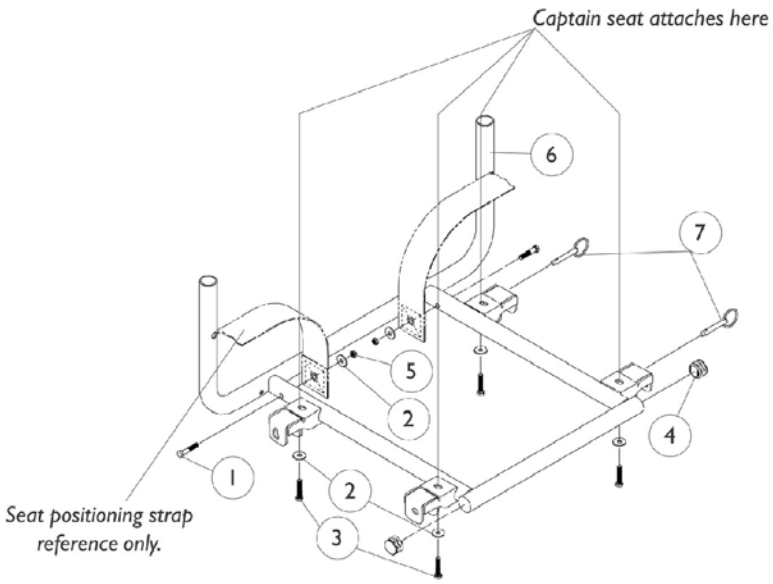
Actuator Attaching Hardware
After 8/15/99
(High Back 18" Wide Models Only)

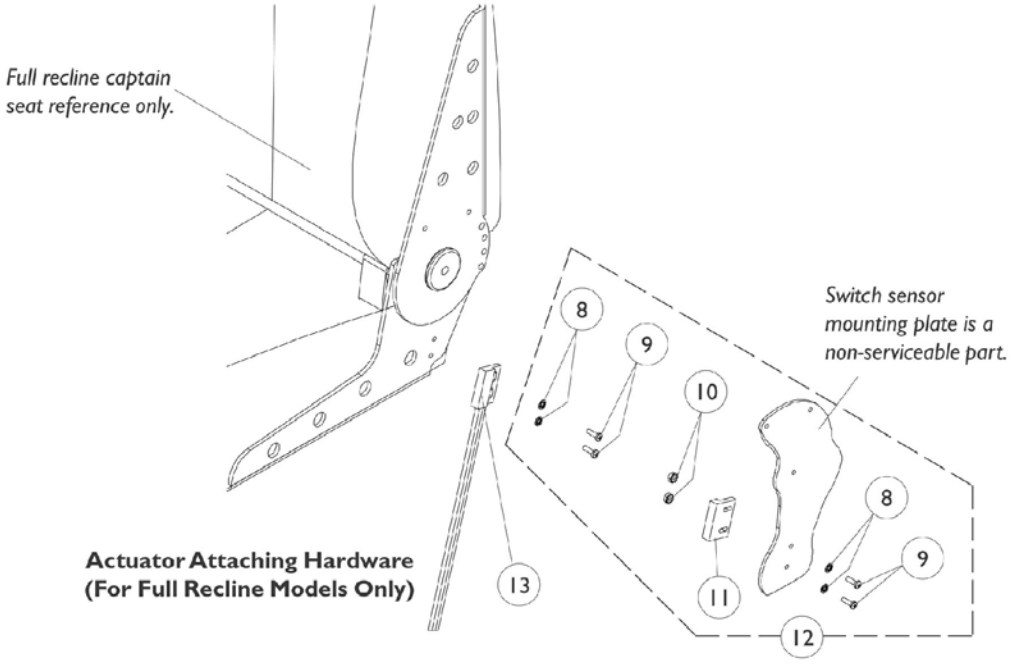
Captain Seat Frame and Actuator Hardware
Before 9/1/02

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1070751	Frame, Seat	1	1
2		1071602	Pin, Anchor (Captain Seat)	1	4
3		1029501	Plug Button, Black (1")	1	2
4	B	1071603	Screw, Hex Head (M6 x 1" x 20MM)	1	4
4	C	1045267	Screw, Hex Head (1/4-20 x 3/4")	1	4
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	6
6		7930333	Locknut (1/4-20)	25	2
7		1037610	Screw, Hex Head (1/4-20 x 1-5/8")	1	2
8	B,D	1074115	Seat Mounting Hardware, Extended Backs, 18" Wide	1	1
8	C,D	1079207	Seat Mounting Hardware, Extended Backs and Forward Folding Seat, 18" Wide	1	1
9		1076392	Bracket, Lower Limit Switch Sensor	1	1
10		1098624-NLA	Clamp, Cable	1	1
11		1016289	Washer, Caplugs (15/32" I.D. x 1-3/32" O.D.)	1	1
12		1076568	Screw, Hex Head (7/16-20 x 1")	1	1
13		1016291	Hub Cap, Black	1	1
14		1024001	Sensor, Actuator Switch	1	1
15		16348X007	Rivet Washer (1/8 x 3/8 x 1/16")	1	2
16		1074128	Screw, Phillips Pan Head (#4-40 x 7/16")	1	2
17		7930322	Screw, Hex Head (M8 x 1-1/4" x 20MM)	25	1
18		7930358	Washer, Steel (5/16 x 3/4 x 1/16")	25	1
19		1076394	Bracket, Upper Limit Sensor Switch	1	1
20		P0870X000	Nut, Hex Keps (#4-40)	1	2
21		1025116	Screw, Slotted Hex Head (#4-3/8")	1	3
22		1008525	Washer, Internal Tooth Lock (#4-40)	1	3
23	A	1074983	Cable, Limit Switch Sensor	1	1

NOTE: A - Item number 23 is not included with a high back seat assembly.
B - High Backs 18" Wide.
C - Extended Backs and Forward Folding Seats 18" Wide.
D - Includes Items 3-7.

Captain Seat Frame and Actuator Hardware
After 8/31/02





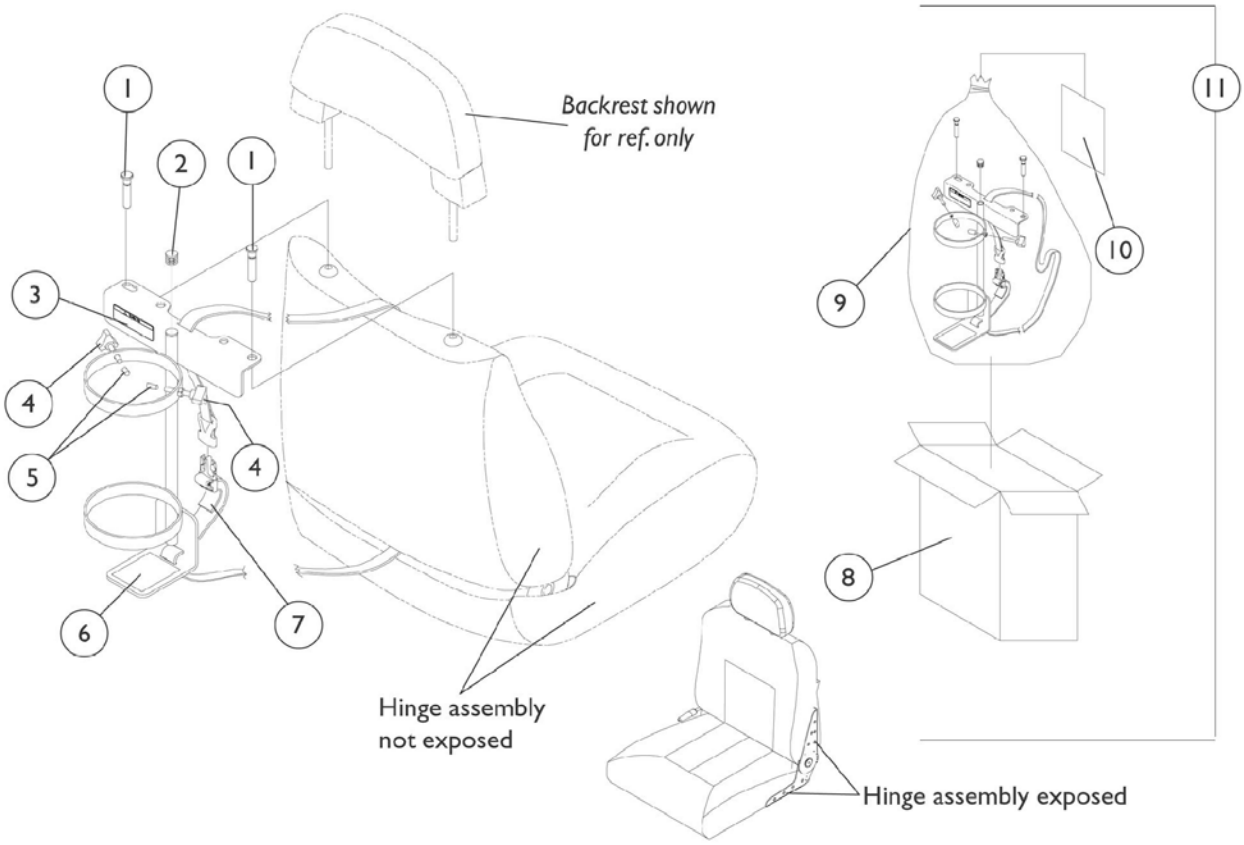
Actuator Attaching Hardware
(For Full Recline Models Only)

Captain Seat Frame and Actuator Hardware
After 8/31/02

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1070751	Frame, Seat	1	1
2		1071602	Pin, Anchor (Captain Seat)	1	4
3		1029501	Plug Button, Black (1")	1	2
4		1025713	Screw, Hex Head (1/4-20 x 1")	1	4
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	6
6		7930333	Locknut (1/4-20)	25	2
7		1037610	Screw, Hex Head (1/4-20 x 1-5/8")	1	2
8		1008525	Washer, Internal Tooth Lock (#4-40)	1	4
9		7930339	Screw, Phillips Pan Head (#4-40 x 3/8")	25	4
10		P0870X000	Nut, Hex Keps (#4-40)	1	2
11		1024001	Sensor, Actuator Switch	1	1
12	A,B	1107242	Hardware, Actuator Switch Sensor Mounting	1	1
13	B	1074983	Cable, Limit Switch Sensor	1	1

NOTE: A - Includes Item 8-11.
B - Item 12 and 13 are not included with a high back seat assembly.

Oxygen Holder Assembly Kit Before 4/15/03
Captain Seat, Low Back Models Only



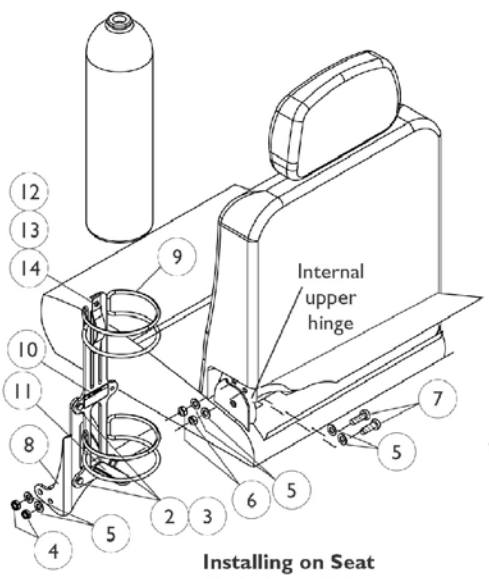
Oxygen Holder Assembly Kit Before 4/15/03

Captain Seat, Low Back Models Only

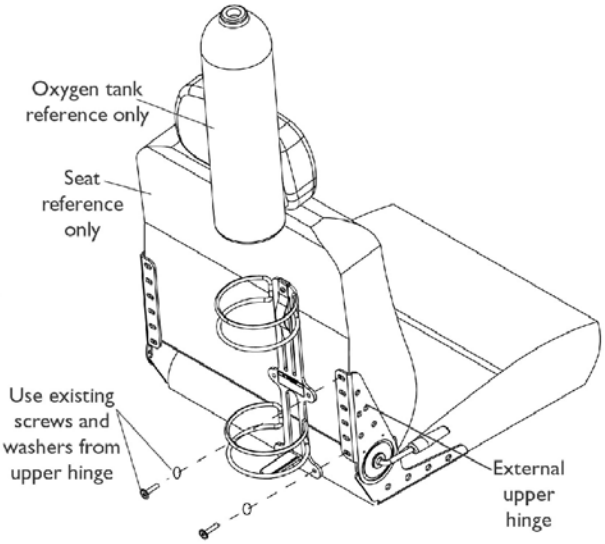
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080865	Pin, Oxygen Holder	1	2
2		1035614	Plug Button, Black (5/8")	1	1
3		1080866	Decal, Oxygen Warning - English	1	1
4		1027684	Knob, Clamping (Black)	1	2
5		1086780	Package, Protective Caps	10	2
6		1073159	Pad, Non-Skid	1	1
7		1080872	Strap with Buckle	1	1
8		1083052	Carton, Shipper	1	1
9		2000454	Bag, Poly (33" W x 39" L)	1	1
10		1080869	Instruction Sheet, Oxygen Holder	1	1
11	B,C	1080870-NLA	Oxygen Holder Assembly with Instruction Sheet	1	1

NOTE: A - Oxygen holder pins are to be used when backrest is absent.
B - Includes items 1-10.
C - Due to product improvement, see oxygen holder assemblies dated after 4/14/03 that will accommodate both (exposed and non-exposed) captain seat hinge assemblies. Special orders are no longer needed for exposed hinge assembly models.

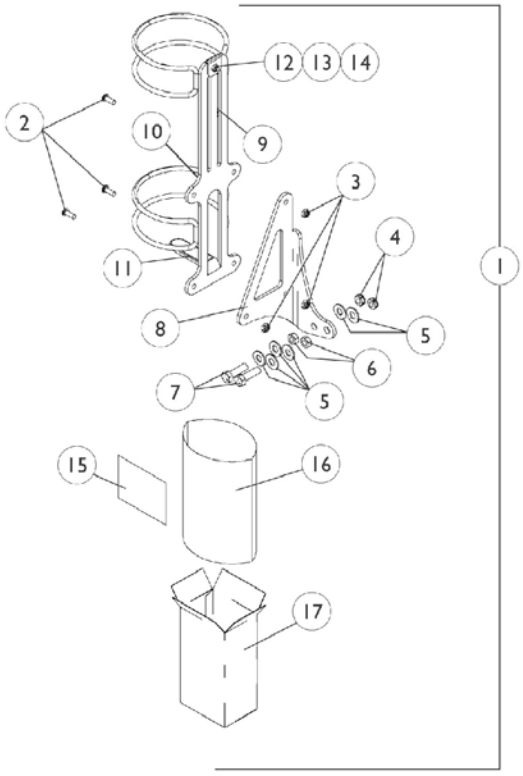
Oxygen Holder Assembly Kit After 4/14/03
All Captain Seat Models

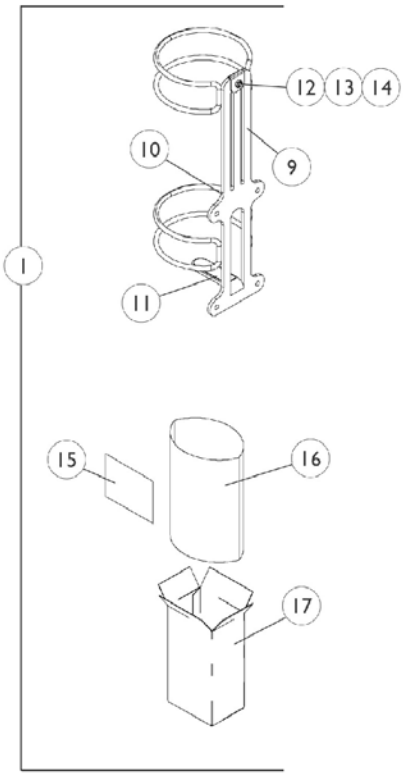


Installing on Seat with Internal Hinge



Installing on Seat with External Hinge





Oxygen Holder Assembly Kit After 4/14/03
All Captain Seat Models

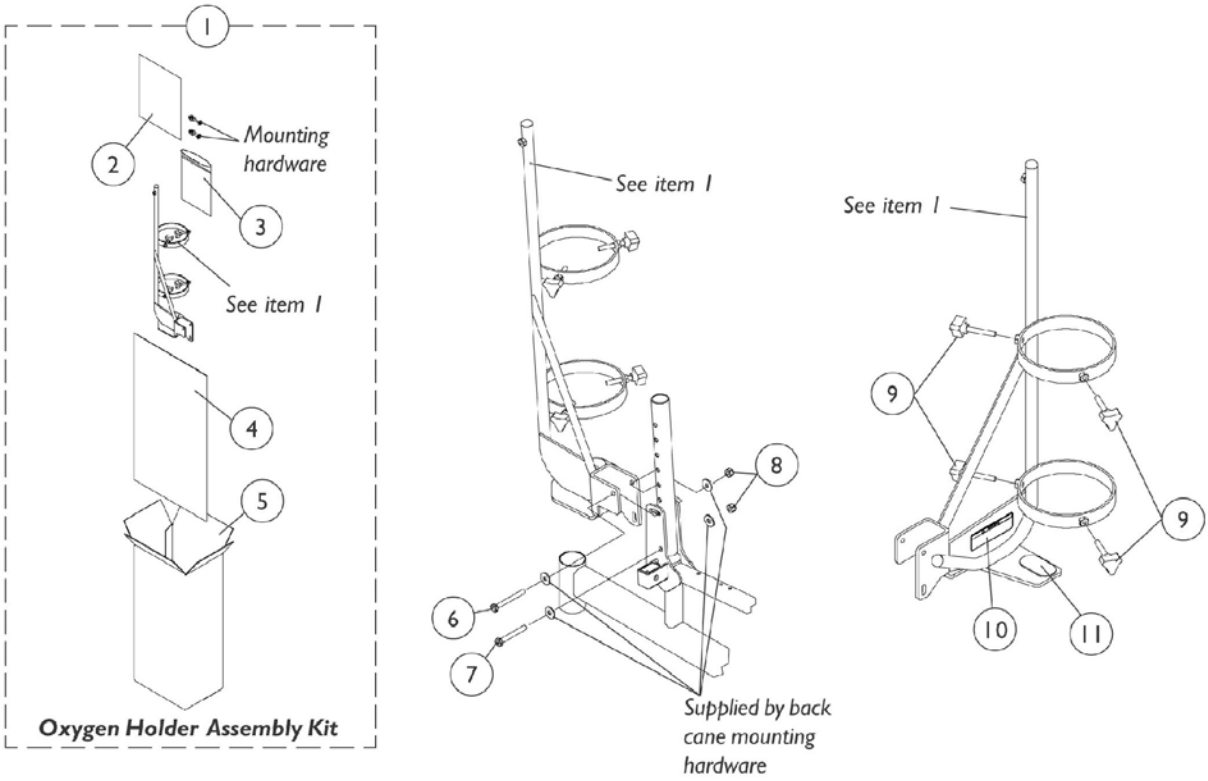
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1116952	Oxygen Holder Assembly Kit	1	1
1	B	1116956	Assembly, Oxygen Holder (D or E Tanks)	1	1
2		1055304	Screw, Socket Button Head (1/4-28 x 5/8")	1	3
3		1025765	Locknut (1/4-28)	1	3
4		1028486	Locknut, Low Profile (3/8-16)	1	2
5		1118889	Washer, Steel (3/8 x 7/8 x 1/16")	1	6
6		1116954	Nut, Hex (3/8-16)	1	2
7		1118888	Screw, Hex Head (3/8-16 x 1-1/4")	1	2
8		1116953	Bracket, Oxygen Holder	1	1
9	C	1116948	Oxygen Holder	1	1
10		1080866	Decal, Oxygen Warning - English	1	1
11		1116950	Pad, Non-Skid	1	1
12		1116945	Spring, Oxygen Holder	1	1
13		1072319	Screw, Socket Button Head (#10-32 x 1/2")	1	1
14		1025735	Locknut (#10-32)	1	1
15		1116957	Instruction Sheet, Oxygen Holder	1	1
16		1021866	Bag, Poly (15" Wide x 26" Long)	1	1
17		1063960	Carton	1	1

NOTE: A - For seats with an INTERNAL (Non-Visible) hinge assembly and includes items 2-17
B - For seats with an EXTERNAL (Visible) hinge assembly and includes items 9-17
C - Includes items 10-14

Oxygen Holder Assembly Kit

Sling Seats Only

NOTE: Oxygen Holder Assembly Kit shown is not available for EXCEL models.



Oxygen Holder Assembly Kit

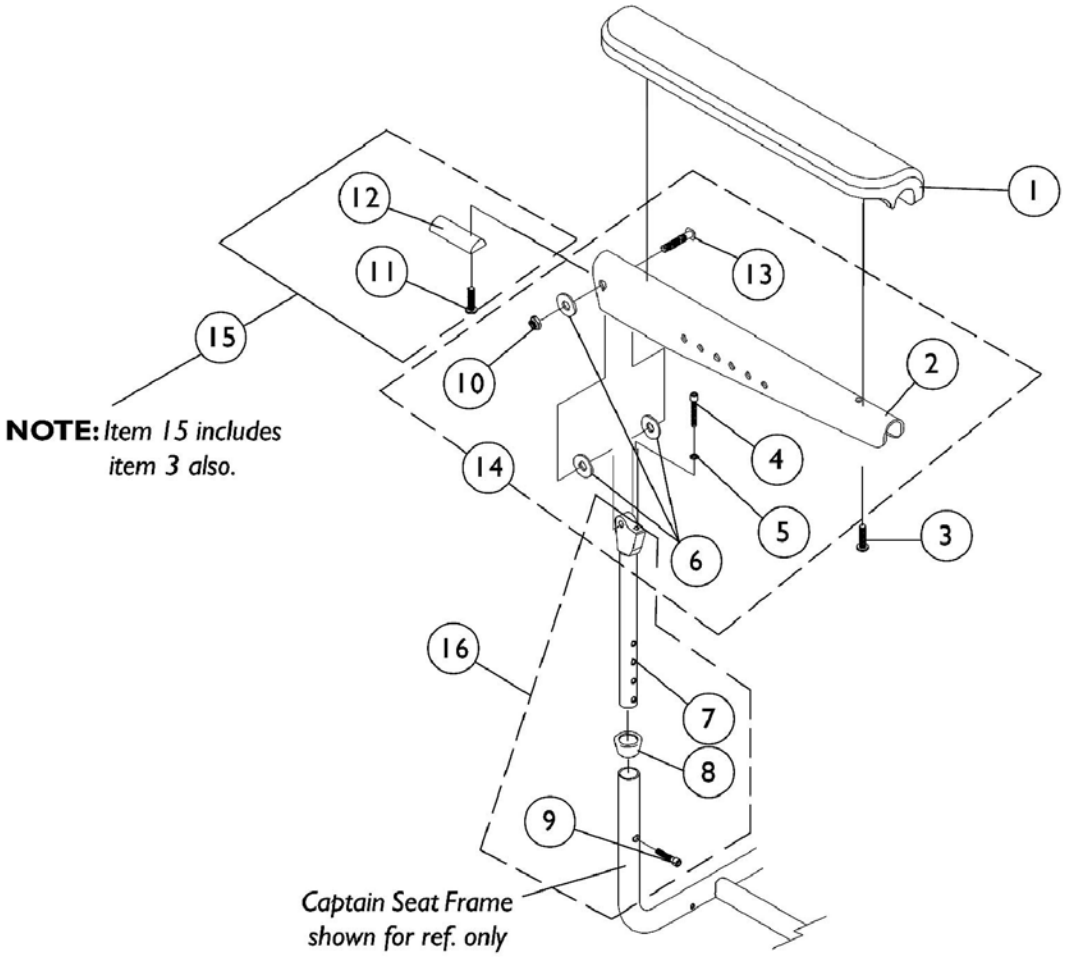
Sling Seats Only

NOTE: Oxygen Holder Assembly Kit shown is not available for EXCEL models.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1098857	Oxygen Holder, Assembly Kit	1	1
2		1098333	Instruction Sheet, Oxygen Holder	1	1
3		1021148	Bag, Poly Zip-Lip (6" Wide x 8-3/4" Long)	1	1
4		1021866	Bag, Poly (15" Wide x 26" Long)	1	1
5		1097276	Carton, Shipper	1	1
6		1096839	Screw, Hex Head (1/4-20 x 2-1/4")	1	1
7		1096838	Screw, Hex Head (1/4-20 x 2")	1	1
8		7930333	Locknut (1/4-20)	25	1
9		1027684	Knob, Clamping (Black)	1	4
10		1080866	Decal, Oxygen Warning - English	1	1
11		1072002	Pad, Non Skid	1	1

NOTE: A - Includes Items 2-11.

Captain Seat Arms and Hardware
18" Wide Models

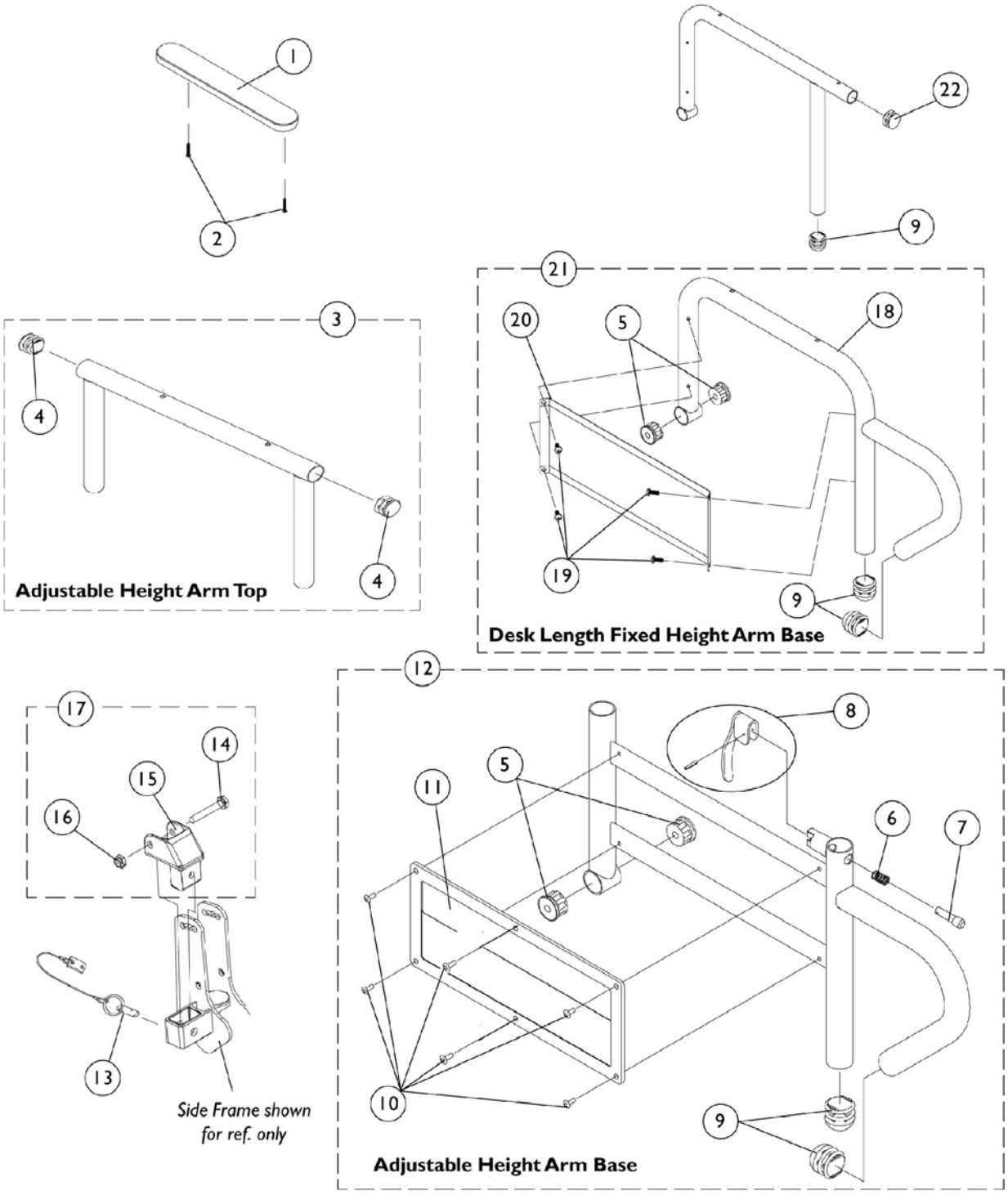


Captain Seat Arms and Hardware
18" Wide Models

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1117328	Arm Pad, Full Length, Urethane Waterfall with Screws, Black (13" L x 2-5/8" W)	1	1
2		1071359	Plate, Armrest (Black)	1	1
3		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	2
4		1009837	Screw, Socket Button Head (1/4-20 x 1")	1	1
5		1025711	Nut, Hex (1/4-20)	1	1
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	3
7		1070928	Arm Tube, Upper Height and Width Adjustable (Black)	1	1
8		15680X013	Anti-Rattle (1")	1	1
9		7930304	Screw, Socket Head (1/4-20 x 1-1/4")	25	1
10		1026906	Locknut (5/16-24)	1	1
11		1102546	Screw, Phillips Pan Head (#10-32 x 7/8")	1	1
12		1070106	Insert, Armrest	1	1
13		1031026	Screw w/ Lug (5/16-24 x 1-3/8")	1	1
14	B	1074120	Kit, Armrest Attaching Hardware (Pair)	2	1
15	C	1073378	Kit, Arm Pad Attaching Hardware	2	1
16	D	1070756	Arm Tube Assembly, Upper Adjustable (Pair)	2	1

NOTE: A - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs for chairs manufactured before 1/3/02.
B - Includes Items 2, 4, 5, 6, 10, and 13.
C - Includes Items 3, 11, and 12.
D - Includes Items 7-9.

Arms - Ranger II / R2 jr.



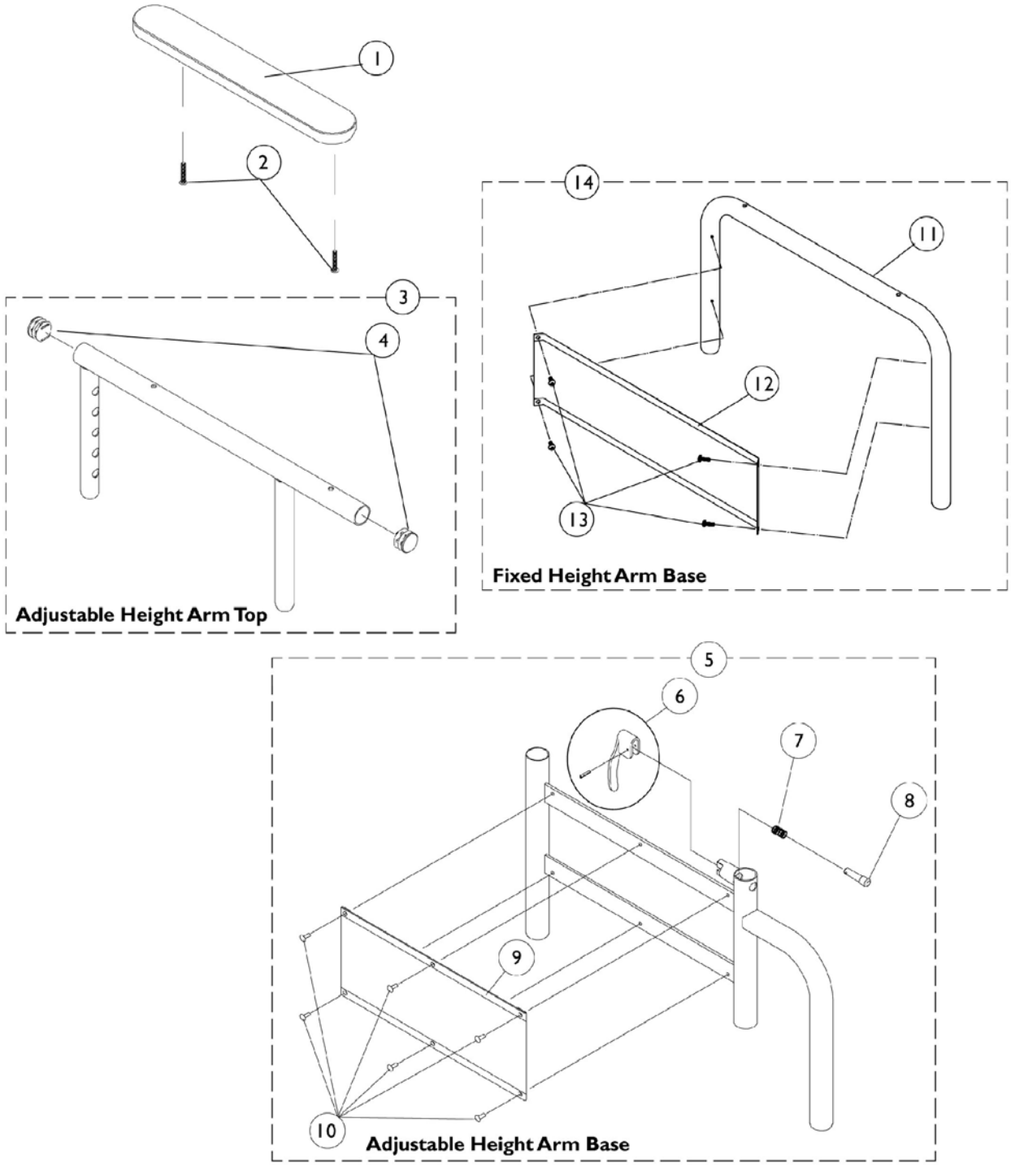
Arms - Ranger II / R2 jr.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	8881015932	Arm Pad, Vinyl, Full Length (14" L x 2" W) - Right	1	1
1	A	8881015933	Arm Pad, Vinyl, Full Length (14" L x 2" W) - Left	1	1
1	B,F	1117328	Arm Pad, Full Length, Urethane Waterfall with Screws, Black (13" L x 2-5/8" W)	1	1
1		1110818	Arm Pads, Full Length, Urethane Waterfall with Screws, Black (13" L x 2-5/8" W) (Pair)	2	1
1	A	8881011811	Arm Pad, Vinyl, Desk Length (9" L x 2" W)	1	1
1	B,F	1117327	Arm Pad, Desk Length, Urethane Waterfall with Screws, Black (9" L x 2-5/8" W)	1	1
1		1110817	Arm Pads, Desk Length, Urethane Waterfall with Screws, Black (9" L x 2-5/8" W) (Pair)	2	1
2		1055949	Screws, Phillips Pan Head (#10-32 x 1-1/8")	2	1
2	D	1094270	Screw, Phillips Pan Head (#10-32 x 1-1/4") (Pair)	2	1
3		1071253	Arm Top, Adjustable Height with Plug Buttons - Full Length (Black)	1	1
3		1070859	Arm Tube, Upper with Plug Buttons (Black) - Desk Length	1	1
4		1027095	Plug Button, Black (7/8")	1	2
5		1065936	Plug, Pivot	1	2
6		47471X074	Spring, Arm Lock	1	1
7		1028594	Pin, Arm Lock	1	1
8		1090768	Kit, Lock Handle w/Rivets (both LT & RT side)	2	1
9		1067734	Plug Button, Black (5/8")	1	2
10		1028645	Rivet	1	6
11		1064130	Clothing Guard	1	1
12	C	8881071554	Arm Base, Adjustable Height - Right	1	1
12	C	8881071555	Arm Base, Adjustable Height - Left	1	1
13		1068039	Pin, Pull	1	1
14		1019590	Screw, Socket Button Head (1/4-20 x 1-5/8")	1	1
15		1068025	Clevis, Pivot	1	1
16		7930323	Package, Locknut (1/4-20)	25	1
17	E	1090277	Hardware, Mounting, Swingaway Armrest	1	1
18	C	8881071517	Tube, Arm, Full Length, Right	1	1
18	C	8881071518	Tube, Arm, Full Length, Left	1	1
18	C	8881071519	Tube, Arm, Desk Length, Right	1	1
18	C	8881071520	Tube, Arm, Desk Length, Left	1	1
19		1025729	Screw, Self Tapping Pan Head (#8-32 x 3/8")	1	4
20		1035472	Clothing Guard, Desk Length	1	1
21	C	8881071550	Arm Assembly, Full Length, Right	1	1
21	C	8881071551	Arm Assembly, Full Length, Left	1	1
21	C	8881071552	Arm Assembly, Desk Length, Right	1	1
21	C	8881071553	Arm Assembly, Desk Length, Left	1	1
22		1027095	Plug Button, Black (7/8")	1	1

Arms - Ranger II / R2 jr.

NOTE:
A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs with screws for chairs manufactured before 1/3/02.
C - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
D - For Black Urethane Waterfall Arm Pads Only.
E - Includes Items 14, 15 and 16.
F - After 7/9/07 Invacare recommends ordering armpads in pairs to assure uniform appearance on chair

Arms - Excel

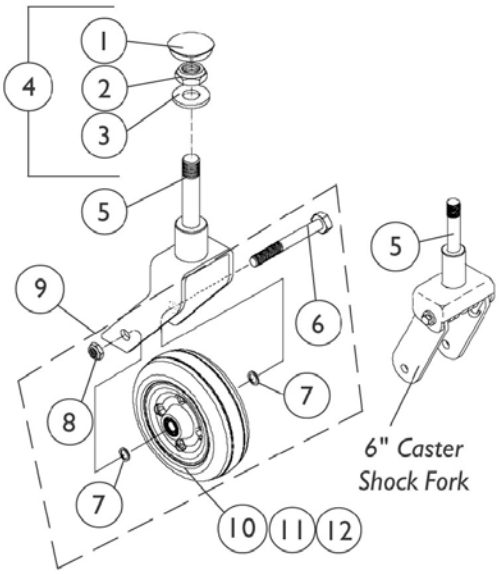

1
2
3
4
Adjustable Height Arm Top
14
11
12
13
Fixed Height Arm Base
5
6
7
8
9
10
Adjustable Height Arm Base

Arms - Excel

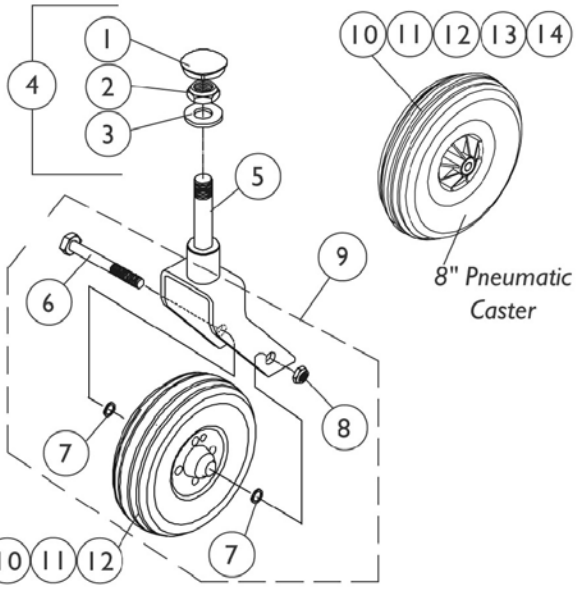
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	8881015932	Arm Pad, Vinyl, Full Length (14" L x 2" W) - Right	1	1
1	A	8881015933	Arm Pad, Vinyl, Full Length (14" L x 2" W) - Left	1	1
1	B,D	1117328	Arm Pad, Full Length, Urethane Waterfall with Screws, Black (13" L x 2-5/8" W)	1	1
1		1110818	Arm Pads, Full Length, Urethane Waterfall with Screws, Black (13" L x 2-5/8" W) (Pair)	2	1
1	A	8881011811	Arm Pad, Vinyl, Desk Length (9" L x 2" W)	1	1
1	B,D	1117327	Arm Pad, Desk Length, Urethane Waterfall with Screws, Black (9" L x 2-5/8" W)	1	1
1		1110817	Arm Pads, Desk Length, Urethane Waterfall with Screws, Black (9" L x 2-5/8" W) (Pair)	2	1
2		1055949	Screws, Phillips Pan Head (#10-32 x 1-1/8")	2	1
2		1094270	Screw, Phillips Pan Head (#10-32 x 1-1/4") (Pair)	2	1
3		1041522	Arm Tube, Upper with Plug Buttons (Black) - Full Length	1	1
3		1070859	Arm Tube, Upper with Plug Buttons (Black) - Desk Length	1	1
4		1027095	Plug Button, Black (7/8")	1	2
5	C	8881057741	Adjustable Height Base (Color) - Right	1	1
5	C	8881057742	Adjustable Height Base (Color) - Left	1	1
6		1090768	Kit, Lock Handle w/Rivets (both LT & RT side)	2	1
7		47471X074	Spring, Arm Lock	1	1
8		1028594	Pin, Arm Lock	1	1
9		1064130	Clothing Guard	1	1
10		1028645	Rivet	1	6
11	C	8881057723	Desk Length Arm Tube (Color), Right	1	1
11	C	8881057724	Desk Length Arm Tube (Color), Left	1	1
11	C	8881057715	Tube, Arm, Full Length (Color), Right	1	1
11	C	8881057716	Tube, Arm, Full Length (Color), Left	1	1
12		1035472	Clothing Guard, Desk Length	1	1
12		1044572	Clothing Guard, Full Length 16-19" Deep	1	1
13		1025729	Screw, Self Tapping Pan Head (#8-32 x 3/8")	1	4
14	C	8881057729	Arm, Desk Length without Armpad (Color), Right	1	1
14	C	8881057730	Arm, Desk Length without Armpad (Color), Left	1	1
14	C	8881057719	Arm, Full Length without Armpad (Color), Right	1	1
14	C	8881057720	Arm, Full Length without Armpad (Color), Left	1	1

NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in parts with screws for chairs manufactured before 1/3/02.
C - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
D - After 7/9/07 Invacare recommends ordering armpads in pairs to assure uniform appearance on chair

Rear Casters, Forks, and Hardware



6" Caster Assembly



8" Caster Assembly

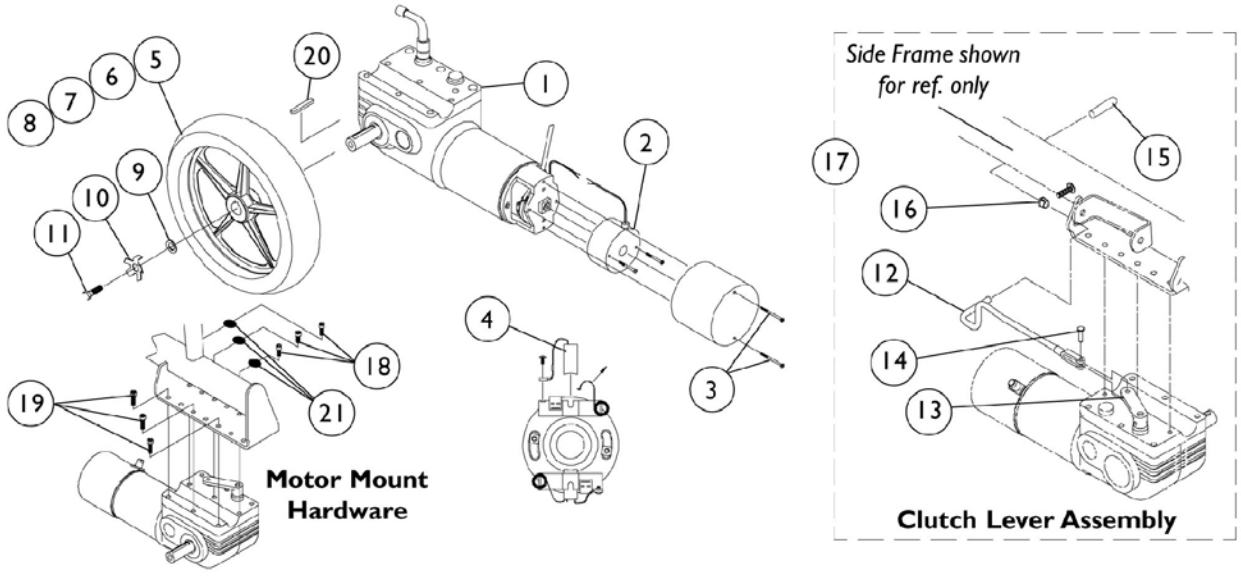
Rear Casters, Forks, and Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1056739	Cap, Head Tube	1	1
2		1028550	Locknut (5/8-18)	1	1
3		1041444	Washer (5/8 x 1-5/16 x 1/8")	1	1
4	C	1057949	Fork Stem Hardware	1	1
5	A	8881071460	Fork and Stem - 6" Casters	1	1
5	A	8881071600	Caster Forks, Shock Fork (6")	1	1
5	A	8881058562	Caster Forks, Standard Fork (8")	1	1
6	D	1025726	Screw, Hex Head (7/16-20 x 3-1/4")	1	1
6	E	1058744	Screw, Hex Head (7/16-20 x 3-1/2")	1	1
7		7930329	Washer, Steel (15/32 x 5/8 x 3/64")	25	1
8		7930331	Locknut (7/16-20")	25	1
9	D,F	1042489	Caster Axle Hardware (1 Pair)	2	1
9	E,F	1058890	Hardware, Caster, Shock Fork (Pair)	2	1
10	G	1072014-NLA	Wheel with Bearings - Semi Pneumatic (6" x 2")	1	1
10	H	1115179	Wheel with Bearings, 6 x 2" Urethane Deep Profile	1	1
10	H	1122066	Wheels with Bearings, 6 x 2" Urethane Deep Profile	2	1
10		1070811	Wheel/Caster, Semi-Pneumatic with Bearings (8 x 1-3/4")	1	2
10		1002002	Wheel with Bearings - Pneumatic (8 x 2")	1	1
11		1006049	Bearing (7/16")	1	2
12		1020592	Spacer, Bearing (7/16 x 5/8 x 1-3/4")	1	1
13		40176X034	Tire, Pneumatic (8" x 2")	1	1
14		1034942	Tube, Pneumatic Inner (8" x 2")	1	1
	B	40176X010	Tire Pump	1	1

NOTE:
A - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Not Shown.
C - Includes Items 1-3.
D - Standard Fork.
E - Shock Fork.
F - Includes items 6-8.
G - Service part No Longer Available 8/15/03. Due to product improvement, order (pair) part number 1122066 dated after 8/14/03 so each side matches. The deep profile caster has 2 tread grooves w/ round corners instead of 4 tread grooves w/ square corners.
H - Service part after 8/14/03

Drive Wheel (12-1/2 x 2-1/4"), 2-Pole Motor and Gearbox

(Ranger II Basic, Excel and R2 jr.)



Drive Wheel (12-1/2 x 2-1/4"), 2-Pole Motor and Gearbox
(Ranger II Basic, Excel and R2 jr.)

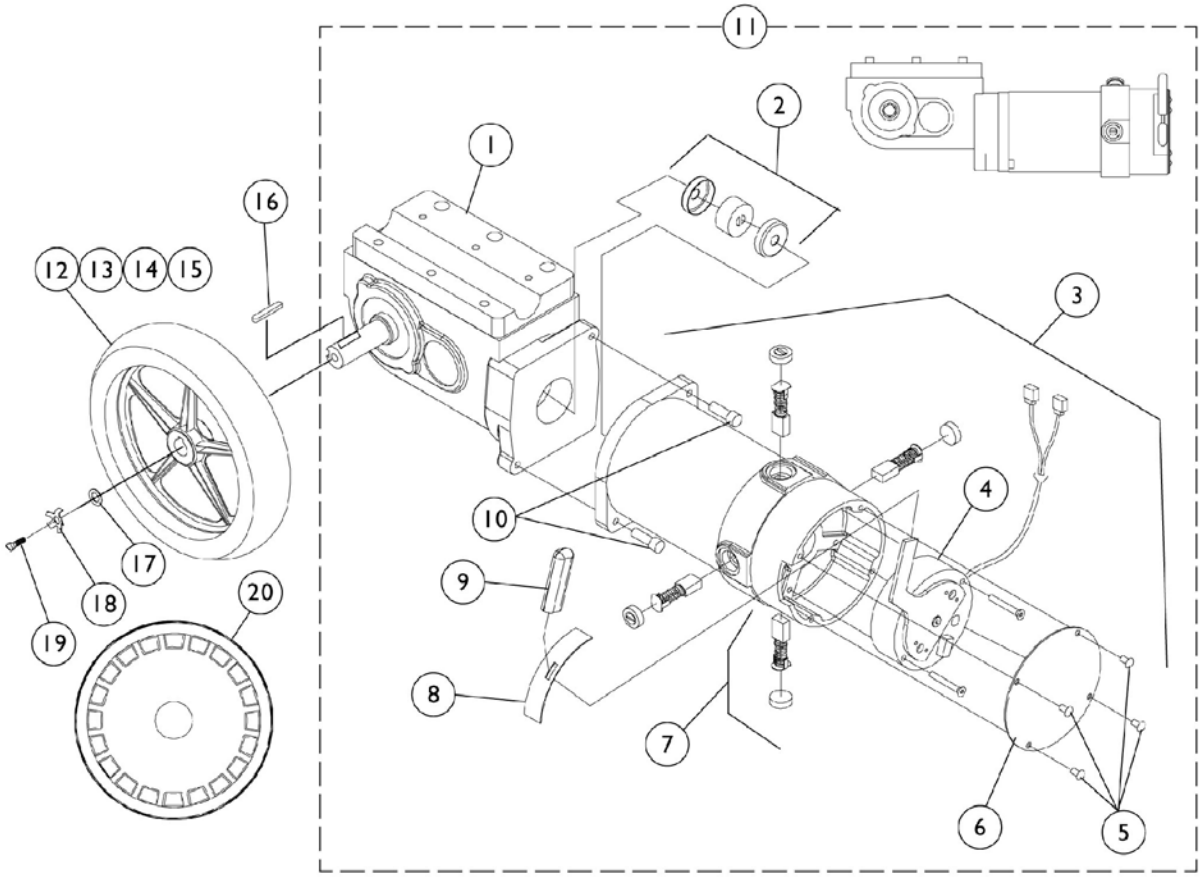
Item Number	Description	Part Number
1	Motor and Gearbox - Right	1071593
1	Motor and Gearbox - Left	1071594
2	Brake Repair Kit	1055872
3	Brake Cover with Screws (Pair)	1038361
4	Brushes (Pair)	561-005
5	Drive Wheel, Foam Fill (12-1/2") with Locking Tab	1064177
	Drive Wheel, Pneumatic (12-1/2") with Locking Tab	1064178
6	Tire (12-1/2 x 2-1/4")	1011524
7	Flat Free Insert	1073936-NLA See Note(s) A
8	Tube (12-1/2 x 2-1/4")	1011525
9	Washer (11/32 x 13/16 x 1/8")	1023262
10	Washer, Locking Tab (Pair)	1064179
11	Screw, Hex Head (M8 x 20MM) (Pkg. of 25)	7930322
12	Clutch Lever - Right	1098712 See Note(s) B
	Clutch Lever - Left	1098713 See Note(s) B
13	Bracket, Clutch Lever	1071567-NLA
14	Pin, Clevis	1071568
15	Tip, Plastic	1040060
16	Bushing, Snap	1071562
17	Clutch Lever Assembly - Right	1074114
	Clutch Lever Assembly - Left	1074135
18	Screw, Socket Head (M6 x 15MM)	1080713
19	Screw, Socket Head (M6 x 35MM)	1080712
20	Key	1023264
21	Washer, Star (1/4")	10513X000

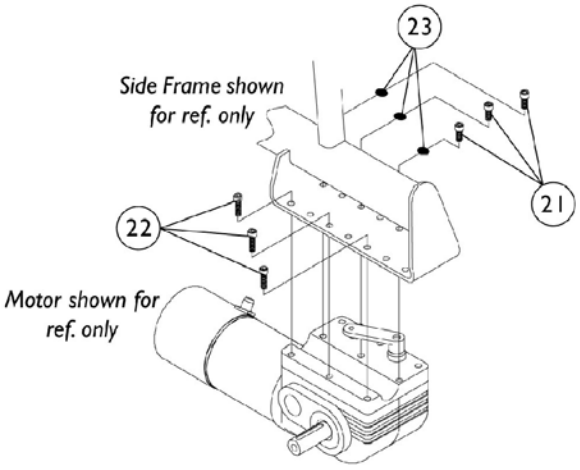
NOTE: A - As of 10/20/99 the "solid" flat free insert was replaced by a "foam fill" process. When a flat free insert is requested, a complete wheel must be ordered.
B - Short end of Clutch Lever was lengthened from 2" to 2-3/4" long as of 12/1/00. Replace in pairs for chairs made before 12/11/00.

NOTE: Light Duty, 250-S models use long cap motors.

Drive Wheel (12-1/2 x 2-1/4"), 4-Pole Motor and Gearbox

(Ranger II Standard w/ Brake Lever)





Motor Mount Hardware

Drive Wheel (12-1/2 x 2-1/4"), 4-Pole Motor and Gearbox
(Ranger II Standard w/ Brake Lever)

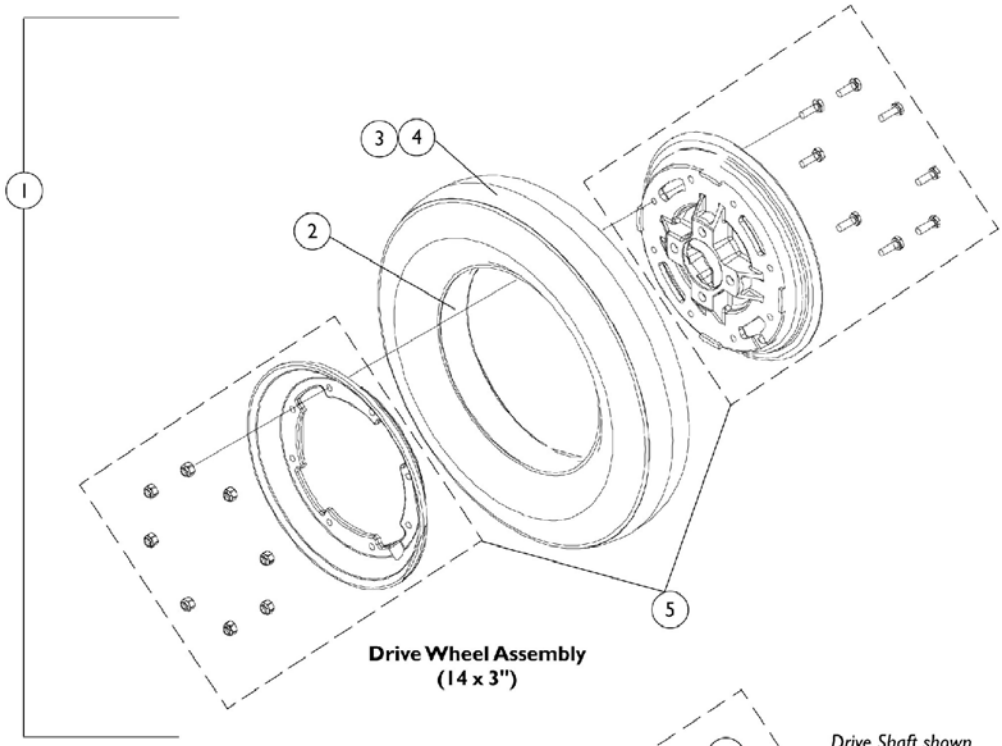
Item Number	Description	Part Number
1	Gearbox - Right	1086228 See Note(s) E
1	Gearbox - Left	1086227 See Note(s) E
2	Coupling w/ Cup (1" Diameter)	5165204-NLA See Note(s) C
2	Coupling w/ Cup (1-5/16" Diameter)	50000X007 See Note(s) D
3	Motor Assembly - Right (Before 10/29/01)	1086788
3	Motor Assembly - Left (Before 10/29/01)	1087218
3	Motor Assembly - Right (After 10/28/01)	1109229
3	Motor Assembly - Left (After 10/28/01)	1109228
4	Brake Repair Kit - Right	1070295
4	Brake Repair Kit - Left	1070294
5	Screw, Socket Pan Head (8-32 x 1/4")	See Item 5
6	Brake Cover with Screws (Before 10/29/01)	1070297-NLA
6	Brake Cover (Black) with Screws (After 10/28/01)	1104402-NLA
7	Brushes with Caps (Set of 4)	1070296
8	Slotted Plate	1082985
9	Plastic Tip (Before 10/29/01)	1082984
9	Plastic Tip (After 10/28/01)	1101725
10	Screw, SHC (1/4-20 x 1-1/8")	1043594 See Note(s) E
10.	Screw, SHC (M6 x 1 x 20MM)	1108978 See Note(s) E
11 See Note(s) F	Motor and Gearbox - Right (Before 10/29/01)	1086218
11	Motor and Gearbox - Left (Before 10/29/01)	1086217 See Note(s) F
11	Motor and Gearbox - Right (After 10/28/01)	1109170
11	Motor and Gearbox - Left After 10/28/01	1109169
12	Wheel with Foam Fill (12-1/2) with Locking Tab	1064177 See Note(s) A

Drive Wheel (12-1/2 x 2-1/4"), 4-Pole Motor and Gearbox
(Ranger II Standard w/ Brake Lever)

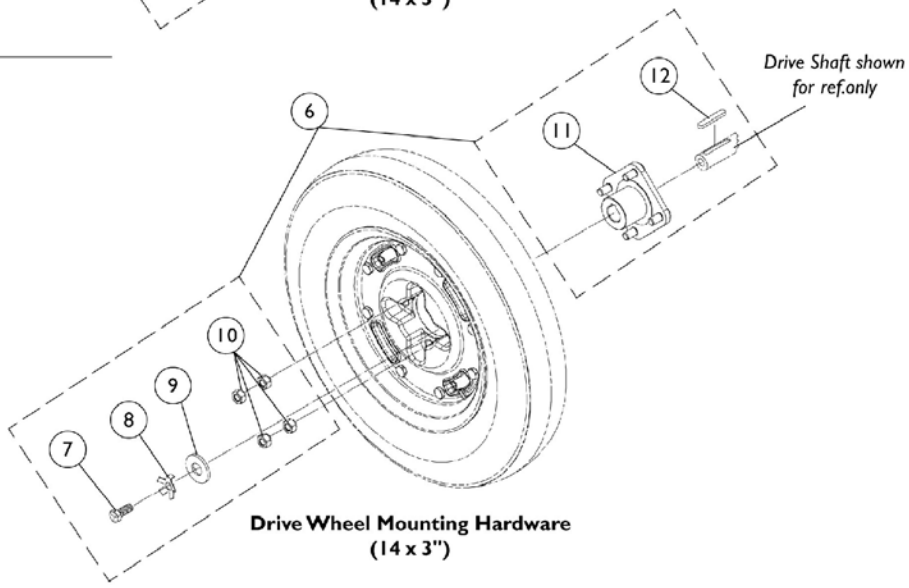
Item Number	Description	Part Number
12	Wheel, Pneumatic (12-1/2") with Locking Tab	1064178 See Note(s) A
13	Tire (12-1/2 x 2-1/4")	1011524
14	Flat Tire Insert	1073936-NLA See Note(s) B
15	Tube (12-1/2 x 2-1/4")	1011525
16	Key	1023264
17	Washer (11/32 x 13/16 x 1/8")	1023262
18	Washer, Locking Tab (Pair)	1064179
19	Screw, Hex Head (M8 x 20MM) (Pkg. of 25)	7930322
20	Shroud Cover - Black, Drive Wheel	1074974-NLA
21	Screw, Socket Head (M6 x 15MM)	1080713
22	Screw, Socket Head (M6 x 35MM)	1080712
23	Washer, Star (1/4")	10513X000

NOTE:
A - Drive wheel comes with a locking tab and instruction sheet.
B - As of 10/20/99, the "solid" flat free insert was replaced by a "foam fill" process. When a Flat Free Insert is requested, a complete wheel must be ordered.
C - Coupling with Cup for chairs manufactured before 11/12/01 - Use part # 50000X007 as a direct replacement part.
D - After 11/11/01 Coupling with Cup was resized from approximately 1" to 1-5/16" diameter and can be used as a direct replacement for part number 5165204
E - When a new gearbox or mounting screws are ordered, (2 ea.) metric and (2 ea.) non-metric screws (item 10) must be ordered. Invacare Corp. utilizes alternate suppliers for this part number.
F - As of May 2008, the Metal Motor End Cap will be replaced with a Composite Motor End Cap. The change does not affect form, fit, function or aesthetics.

Drive Wheel (14 x 3") and Hub Mount
Optional on Chair As Of 10/15/99



Drive Wheel Assembly (14 x 3")



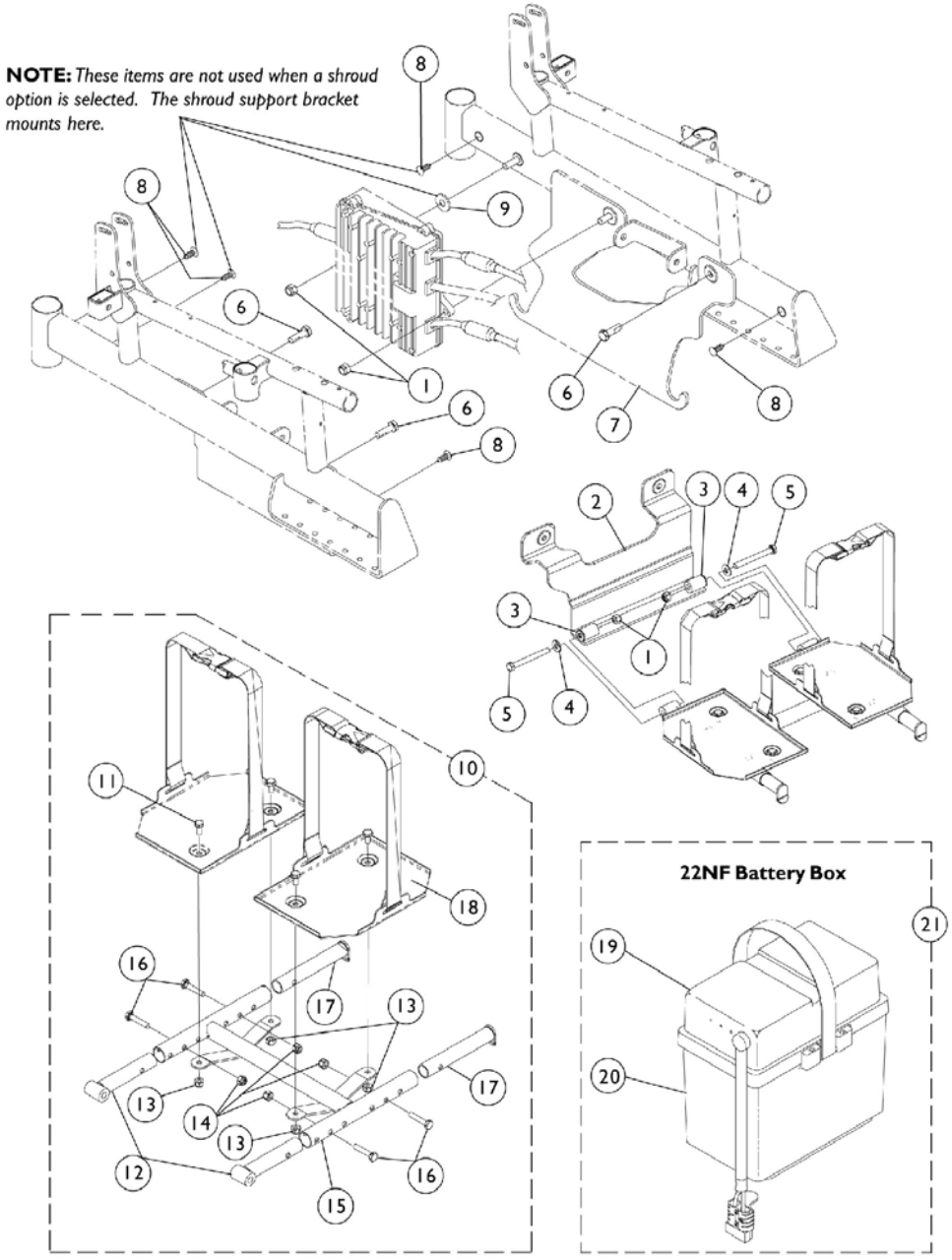
Drive Wheel Mounting Hardware (14 x 3")

Drive Wheel (14 x 3") and Hub Mount
Optional on Chair As Of 10/15/99

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1090649	Assembly, Drive Wheel, Pneumatic (14" x 3")	1	1
1		1090650	Drive Wheel Assembly w/ Flat Free Insert (14" x 3")	1	1
2		1101754	Tire with Flat Free (14" x 3")	1	1
3		1039652	Tire, Pneumatic (14" x 3")	1	1
4		1039651	Tube (14" x 3")	1	1
5	A	1090651	Rim, 8" with Hardware (14 x 3" Wheel)	1	1
6	B	1090648-NLA	Hardware, Drive Wheel Mounting w/ Instruction Sheet (14" x 3")	1	1
7		7930322	Screw, Hex Head (M8 x 1-1/4" x 20MM)	25	1
8		1064179	Kit, Locking Tab Washers with Instruction Sheet	2	1
9		1023262	Washer (11/32 x 13/16 x 1/8")	1	1
10		1024444	Locknut (5/16-24)	1	4
11		1086681	Hub, Wheel (14" x 3")	1	1
12		1023264	Key (6 MM x 6MM x 40 MM)	1	1

NOTE: A - Hardware consists of: (8) ea. Screw, Hex Head Cap (1/4-20 x 3/4") and (8) ea. Locknut, High Profile (1/4-20").
B - Includes Items 7-12 and Instruction Sheet.

Battery Boxes and Trays

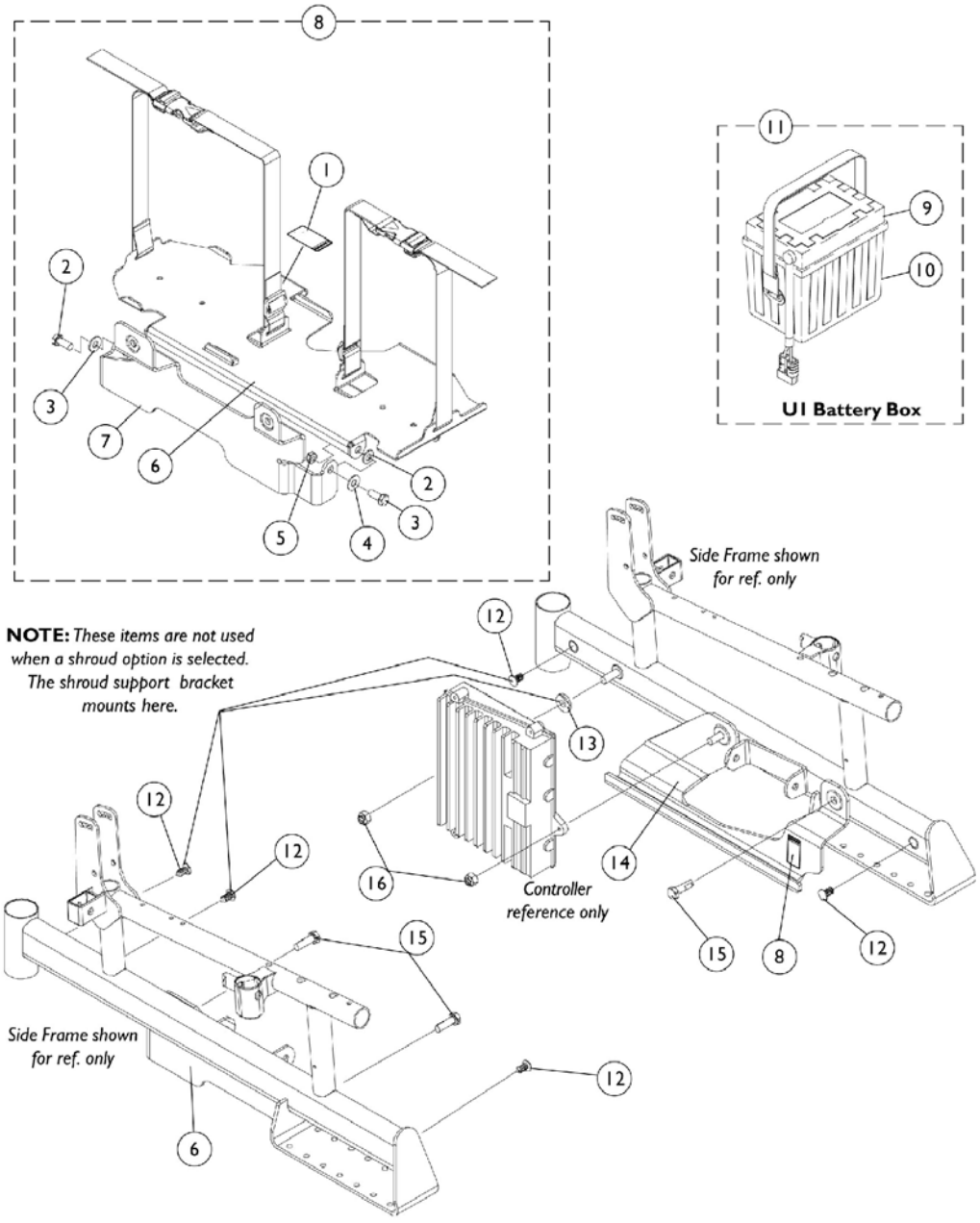


Battery Boxes and Trays

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1026158	Locknut (5/16-18)	1	2
2		1080242	Bracket, Pivot, Right	1	1
3		1026032	Washer, Nylon (11/32 x 11/16 x 1/16")	1	2
4		1018739	Washer (1/4 x 5/8 x 3/32")	1	2
5		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	2
6	K	1043627	Screw, Hex Head Cap with Patch (5/16-18 x 1-3/4")	1	1
6	L	1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
7		1080240	Bracket, Pivot, Left	1	1
8		1058520	Fastener, Panel Snap-In	1	5
9		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
10	H	1080255-NLA	Tray, Battery Assembly w/ Hardware	1	1
11		1025752	Screw, Hex Head (1/4-20 x 1-1/2")	1	4
12		1080250-NLA	Pin, Tray Pivot	1	2
13		7930323	Package, Locknut (1/4-20)	25	1
14		7930333	Locknut (1/4-20)	25	1
15		1080241	Support, Tray	1	1
16		1021406	Screw, Hex Head (1/4-20 x 1-1/4")	1	4
17		1080256	Pin, Tray	1	2
18		1080239	Tray w/ Buckle	1	2
19	A,B,I	1097003	Battery Box Top, Rear (22NF)	1	2
20	J	1057944	Battery Box Bottom with Strap	1	2
	G	1057954	Battery Strap	1	1
	G	1041433	Pin, Handle	1	2
21	I	1097007	Battery Box Assembly, Rear (22NF)	1	2
	A,E,G	50000X166	Fuse, 60 Amp (Buss 2-1/4" Long)	1	2
	F,G	1089385	Fuse, 80 Amp, MIDI (Non-G/B & G/B)	1	2
	C,G	1060318	Hardware, Battery Terminal, UI Batteries (Pair)	2	1
	D,G	1058618	Hardware, Battery Terminal, 22NF Batteries (1 Pair)	2	1

NOTE:
A - As of 11/05/99 the battery harness fuse changed from a Bussman 60AMP to a MIDI 80AMP fuse. This battery box top is compatible for all chairs manufactured before 11/05/99 and must be ordered whenever a replacement Bussman 60AMP fuse is replaced.
B - It is recommended that new terminal hardware be ordered when a new battery box top is ordered.
C - Hardware includes small battery terminal caps (gray and orange), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties, locking tab washers and instruction sheet for two batteries.
D - Hardware includes battery clamps, battery clamp caps (red and black), small battery terminal caps (red and black), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties and locking tab washers for two batteries.
E - Before 11/5/99.
F - After 11/4/99.
G - Not Shown.
H - Includes Items 11-18.
I - 22NF and UI 250-S Models.
J - Includes: Battery Strap #105794 and Handle Pin #104133.
K - With One Piece Footboard.
L - Without One Piece Footboard.

Battery Boxes and Trays
R2 jr. (14" Wide)



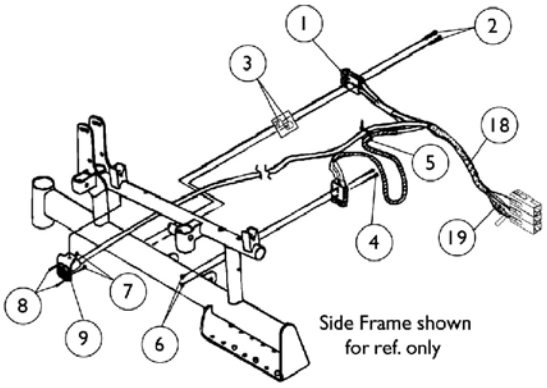
Battery Boxes and Trays
R2 jr. (14" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1079203	Decal, Warning Pinch Point	1	1
2		1026032	Washer, Nylon (11/32 x 11/16 x 1/16")	1	2
3		1086166	Screw, Hex Head (5/16-18 x 3/4")	1	2
4		1074133	Washer (5/16 x 3/4 x 1/16")	1	2
5		1028769	Locknut (5/16-18)	1	2
6		1090275	Tray, Battery with Buckle and Warning Decal	1	1
7		1086160	Pivot Bracket-Right	1	1
8	A	1086167-NLA	Battery Tray Assembly	1	1
9	B,C	1057941	Battery Box Top Assembly, Dual w/ Single Extended Connector, UI	1	2
10		1009268	Battery Box Bottom Assembly	1	2
11	D	1057942	Battery Box Assembly, Dual w/ Single Extended Connector, UI	1	2
12		1058520	Fastener, Panel Snap-In	1	5
13		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
14		1090276	Pivot Bracket with Warning Decal, Left	1	1
15		1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
16		1026158	Locknut (5/16-18)	1	2
	C,F	1089385	Fuse, 80 Amp, MIDI (Non-G/B & G/B)	1	2
	E,F	1060318	Hardware, Battery Terminal, UI Batteries (Pair)	2	1

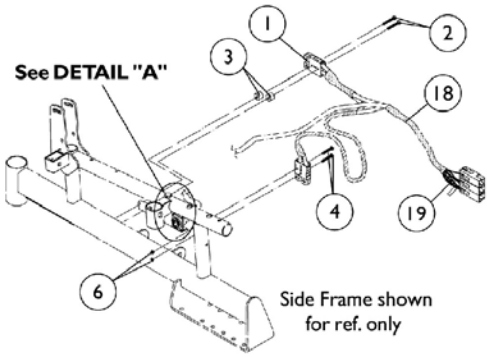
NOTE:
A - Includes Items 2-7.
B - It is recommended that new terminal hardware be ordered when a new battery box top is ordered.
C - As of 11/05/99 the battery harness fuse changed from a Bussman 60AMP to a MIDI 80AMP fuse. This battery box top is compatible for all chairs manufactured before 11/05/99 and must beordered whenever a replacement Bussman 60AMP fuse is requested.
D - Includes Items 9 and 10.
E - Hardware includes small battery terminal caps (gray and orange), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties, locking tab washers and instruction sheet for two batteries.
F - Not Shown.

Battery Chargers and Harnesses

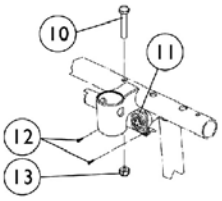
NOTE: Light Duty, 250-S models use a 4 amp. charger #1061411.



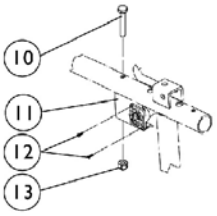
Harness and Battery Bracket Location For Sling Seats Before 4/15/99



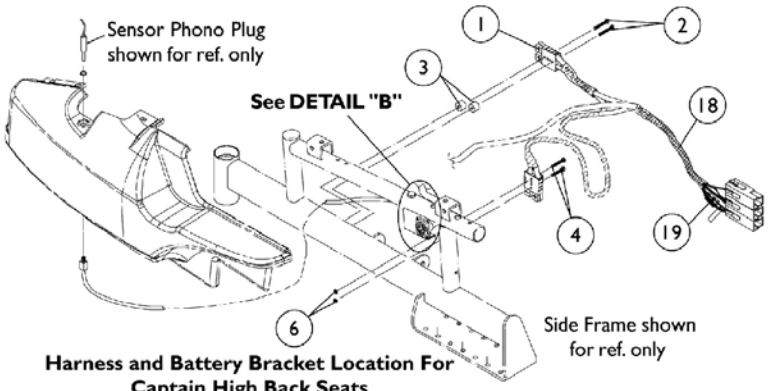
Harness and Battery Bracket Location For Captain Low Back Seats and (Sling Seats After 4/14/99)



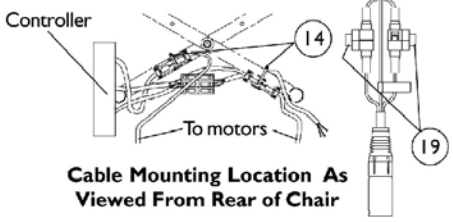
DETAIL "A"



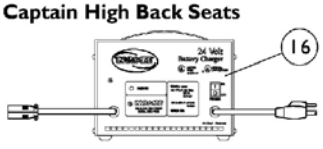
DETAIL "B"



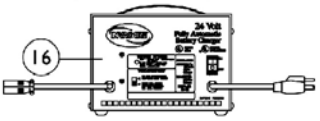
Harness and Battery Bracket Location For Captain High Back Seats



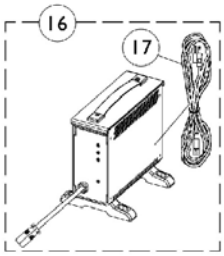
Cable Mounting Location As Viewed From Rear of Chair



Lester 4 Amp. Battery Charger



Lester 8 Amp. Battery Charger



Dynamic or CTE
Battery Charger

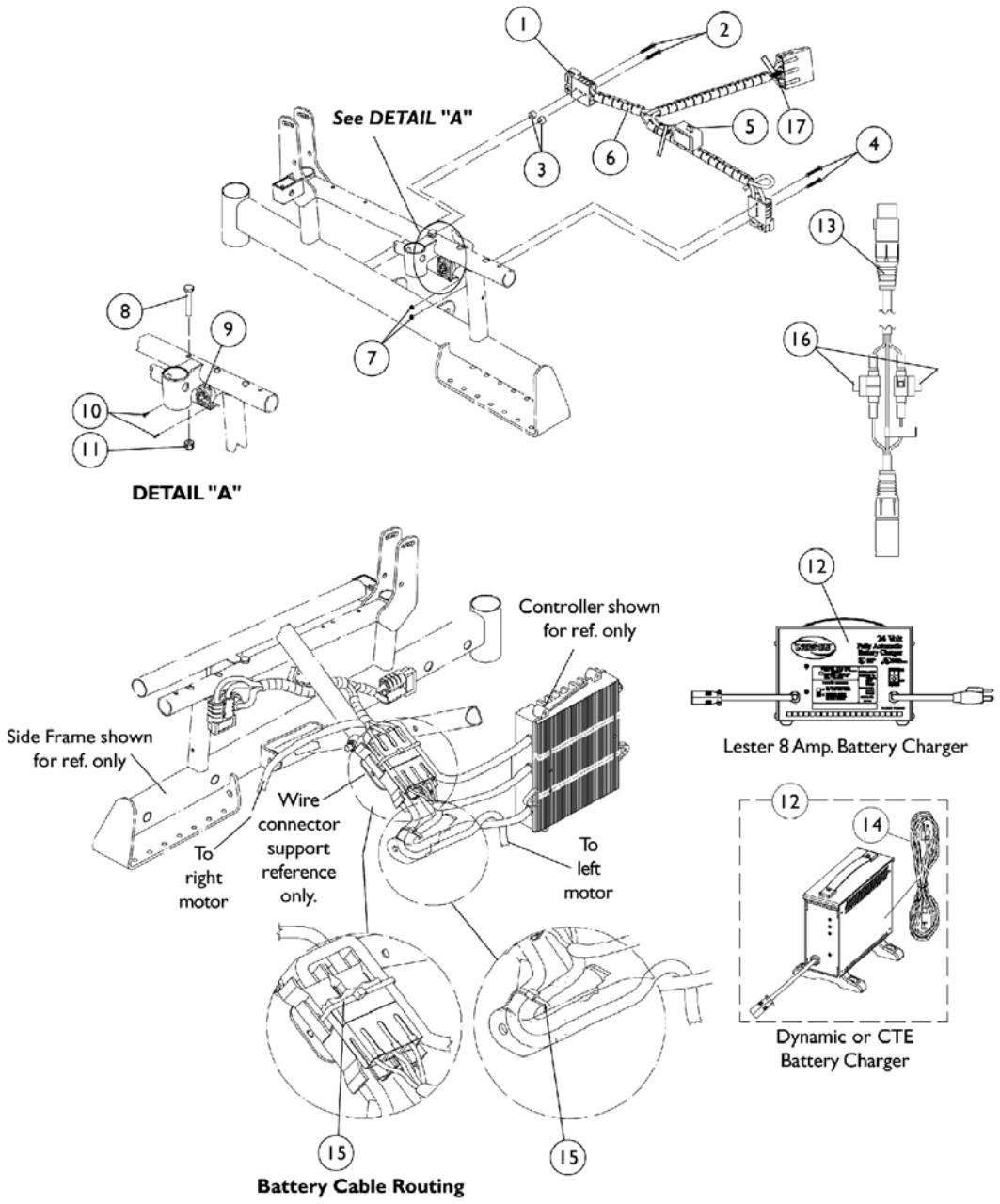
Battery Chargers and Harnesses

NOTE: Light Duty, 250-S models use a 4 amp. charger #1061411.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1053834	Harness, Wiring, Standard	1	1
1	E	1070590	Harness, Wiring	1	1
2	A	1088802-NLA	Screw, Phillips Pan Head (6-32 x 1-1/4")	1	2
3	A	1088801	Washer, Nylon (3/16 x 1/2 x 3/8")	1	2
4		1011980	Screw, Phillips Pan Head (#6-32 x 3/4")	1	2
5		1095503	Package, Cable Ties (5-5/8" Long)	10	1
6		P0870X050	Nut, Keps (#6-32)	1	2
7		P0870X000	Nut, Hex Keps (#4-40)	1	2
8		7930318	Screw, Phillips Pan Head (#4-40 x 1/2")	25	1
9		1053837	Bracket, Charger Connector	1	1
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
11		1086804	Bracket, Battery Charger Connector	1	1
12		1087226	Screw, Phillips Pan Head Tap (#4-24 x 3/8")	1	2
13		7930333	Locknut (1/4-20)	25	1
14		1095502	Package, Cable Ties (11-1/2" Long)	10	1
15		1083929	Cable, Charger Extension (24" Long Round Plug)	1	1
16	B	1053161	Battery Charger, 8 Amp. 115vac (Off Board) Dual Mode Round Plug, Lester	1	1
16		1085678-NLA	Battery Charger, 8 Amp. 115vac (Off Board) Dual Mode Round Plug w/ AC Power Line Cord, Dynamic	1	1
16	H	1061411-NLA	Battery Charger, 4 Amp. 115vac (Off Board) Dual Mode Round Plug, Lester	1	1
16	I,I1	1123249	Battery Charger, 8 Amp. 115vac (Off Board) Single Mode Round Plug w/ AC Power Line Cord, CTE Corp.	1	1
17		1089627	Cord, AC Power Line 115vac (2-prong off-board 11'6"L)	1	1
18	C	1090357	Wrap, Slit Wire Harness (1/2" O.D.) (36" Long Cut To Length)	1	1
19	F	1098892	Fuse, 15 Amp. (Buss ATC-15)	1	1
19	G	1090117	Fuse, 15 Amp. (Buss Mini ATM-15)	1	1

NOTE:
A - Items 2 and 3 changed after 4/14/99. Order Items 2 and 3 together for chairs manufactured before 4/15/99.
B - On 7/18/01 Lester 8AMP battery charger was reinstated.
C - Plastic wire wrap replaced mesh fabric and heat shrink 9/1/99. Part #1090357 can be used for chairs manufactured before 9/1/99 as well.
D - Sling Seats and Low Back Captain Seat.
E - High Back Captain Seat.
F - Before 4/1/03. Wiring Harnesses (2) required. Charger Extension Cable (1) required.
G - After 3/31/03. Wiring Harnesses (2) required. Charger Extension Cable (2) required.
H - CTE 8 Amp. charger replaced the obsoleted 4 Amp. charger as of 4/1/04.
I - CTE charger introduced 4/1/04. Used on Gel Cell or AGM (Absorbed Glass Mat) batteries. For wet cell batteries refer to the 8 amp. Lester charger.
I1 - CTE charger looks exactly the same as Dynamic's charger except for the company name that is silk screened on the narrow side panel, where the charger plug is (hard wired) attached. Serial number starts with 04A00000001.

Battery Chargers and Harness
R2 jr. (14" Wide)

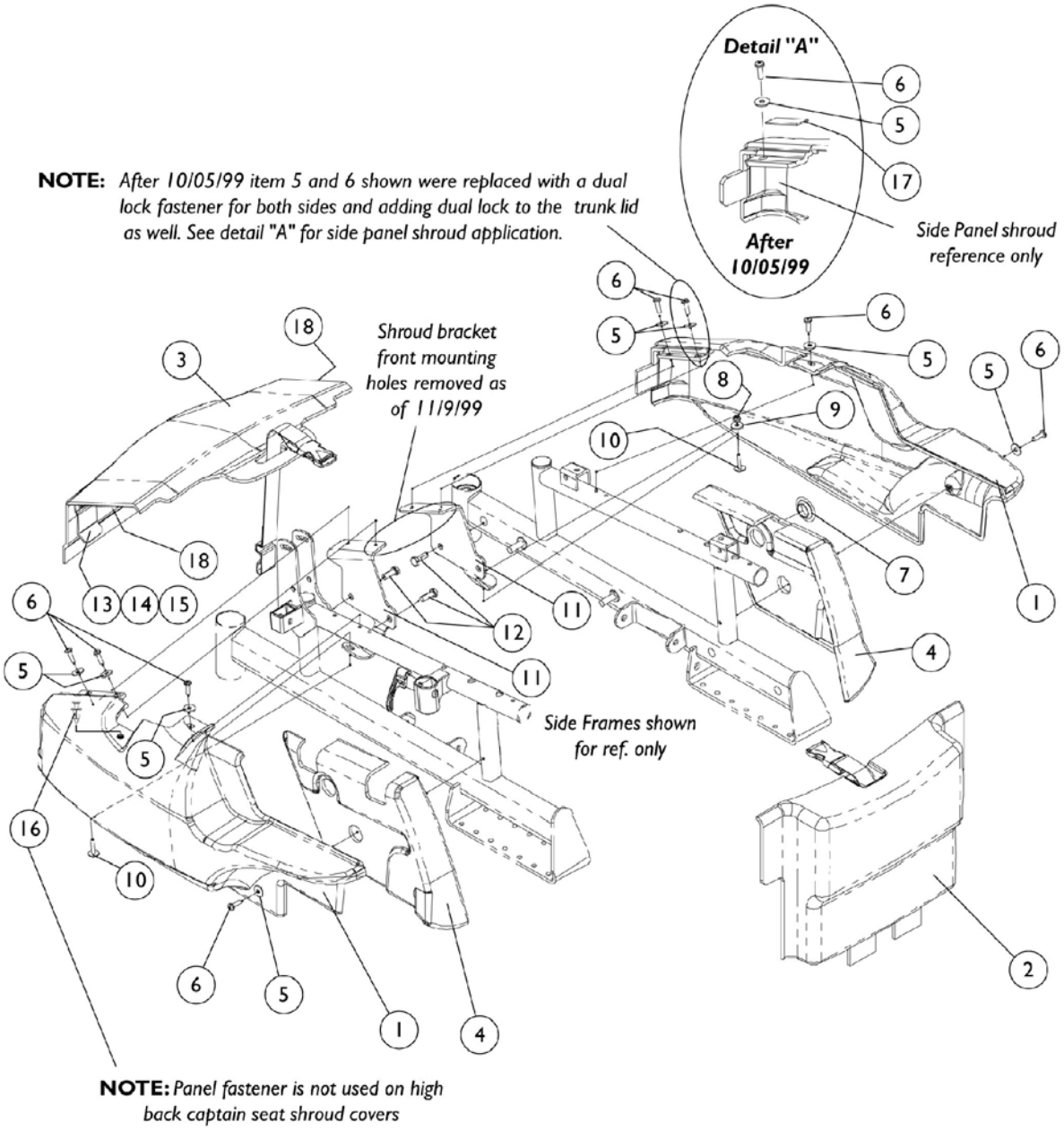

See DETAIL "A"
DETAIL "A"
Controller shown for ref. only
Side Frame shown for ref. only
Wire connector support reference only.
To right motor
To left motor
Battery Cable Routing
Lester 8 Amp. Battery Charger
Dynamic or CTE Battery Charger

Battery Chargers and Harness
R2 jr. (14" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1086168	Wiring Harness, R2 jr.	1	1
2		1088802-NLA	Screw, Phillips Pan Head (6-32 x 1-1/4")	1	2
3		1088801	Washer, Nylon (3/16 x 1/2 x 3/8")	1	2
4		1011980	Screw, Phillips Pan Head (#6-32 x 3/4")	1	2
5		1090117	Fuse, 15 Amp. (Buss Mini ATM-15)	1	1
6		1090357	Wrap, Slit Wire Harness (1/2" O.D.) (36" Long Cut To Length)	1	1
7		P0870X050	Nut, Keps (#6-32)	1	2
8		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
9		1086804	Bracket, Battery Charger Connector	1	1
10		1087226	Screw, Phillips Pan Head Tap (#4-24 x 3/8")	1	1
11		7930333	Locknut (1/4-20)	25	1
12	A	1053161	Battery Charger, 8 Amp. 115vac (Off Board) Dual Mode Round Plug, Lester	1	1
12		1085678-NLA	Battery Charger, 8 Amp. 115vac (Off Board) Dual Mode Round Plug w/ AC Power Line Cord, Dynamic	1	1
12	D,D1	1123249	Battery Charger, 8 Amp. 115vac (Off Board) Single Mode Round Plug w/ AC Power Line Cord, CTE Corp.	1	1
13		1083929	Cable, Charger Extension (24" Long Round Plug)	1	1
14		1089627	Cord, AC Power Line 115vac (2-prong off-board 11'6"L)	1	1
15		1095502	Package, Cable Ties (11-1/2" Long)	10	1
16	B	1098892	Fuse, 15 Amp. (Buss ATC-15)	1	1
16	C	1090117	Fuse, 15 Amp. (Buss Mini ATM-15)	1	2
17	B	1101099	Fuse, 20 Amp. (Buss ATC-20)	1	1
17	C	1119230	Fuse, 20 Amp. (Buss Mini ATM-20)	1	1

NOTE:
A - On 7/18/01 Lester 8 AMP battery charger was reinstated.
B - Before 4/1/03
C - After 3/31/03
D - CTE charger introduced 4/1/04. Used on Gel Cell or AGM (Absorbed Glass Mat) batteries. For wet cell batteries refer to the 8 amp. Lester charger.
D1 - CTE charger looks exactly the same as Dynamic's charger except for the company name that is silk screened on the narrow side panel, where the charger plug is (hard wired) attached. Serial number starts with 04A00000001.

Shroud Covers - Before 3/1/00


Detail "A"
After 10/05/99
Side Panel shroud reference only
NOTE: After 10/05/99 item 5 and 6 shown were replaced with a dual lock fastener for both sides and adding dual lock to the trunk lid as well. See detail "A" for side panel shroud application.
Shroud bracket front mounting holes removed as of 11/9/99
Side Frames shown for ref. only
NOTE: Panel fastener is not used on high back captain seat shroud covers

Shroud Covers - Before 3/1/00

Item #'s 1-4 Shroud Covers

Item Number	Description	Bright Plum Metallic	Bright Blue Metallic	Blue Green Chameleon	Candy Apple Red	Bright Silver Metallic
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Right	1087147 See Note(s) B	1087148 See Note(s) B	1087149 See Note(s) B	1087150 See Note(s) B	1087151 See Note(s) B
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Left	1087152 See Note(s) B	1087153 See Note(s) B	1087154 See Note(s) B	1087155 See Note(s) B	1087156 See Note(s) B
2	Battery Cover Ranger II Only - 16" W	1085576-NLA See Note(s) A, C	1085577-NLA See Note(s) C, A	1085578-NLA See Note(s) A, C	1085579-NLA See Note(s) C, A	1086624-NLA See Note(s) A, C
2	Battery Cover Ranger II Only - 18" W	1085580-NLA See Note(s) A, C	1085581-NLA See Note(s) C, A	1085582 See Note(s) C	1085583 See Note(s) C	1086625-NLA See Note(s) C, A
2	Battery Cover Ranger II Only - 20" W	1085584	1085585	1085586-NLA See Note(s) A	1085587	1086626-NLA See Note(s) A
3	Trunk Lid - 16" W	1087157-NLA See Note(s) A, C	1087158-NLA See Note(s) C, A	1087159-NLA See Note(s) A, C	1087160-NLA See Note(s) C, A	1087161-NLA See Note(s) A, C
3	Trunk Lid - 18" W	1087162-NLA See Note(s) C, A	1087163 See Note(s) C	1087164 See Note(s) C	1087165 See Note(s) C	1087166-NLA See Note(s) C, A
3	Trunk Lid - 20" W	1087167 See Note(s) C	1087168-NLA See Note(s) A	1087169 See Note(s) C	1087170 See Note(s) C	1087171-NLA See Note(s) C, A
4	Filler w/o Plug Button (Captain) - Black Only - Right	1088309	1088309	1088309	1088309	1088309
4	Filler w/o Plug Button (Captain) - Black Only - Left	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA
4	Filler w/o Plug Button (Sling Seat) - Black Only - Right	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA
4	Filler w/o Plug Button (Sling Seat) - Black Only - Left	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA

Shroud Covers - Before 3/1/00

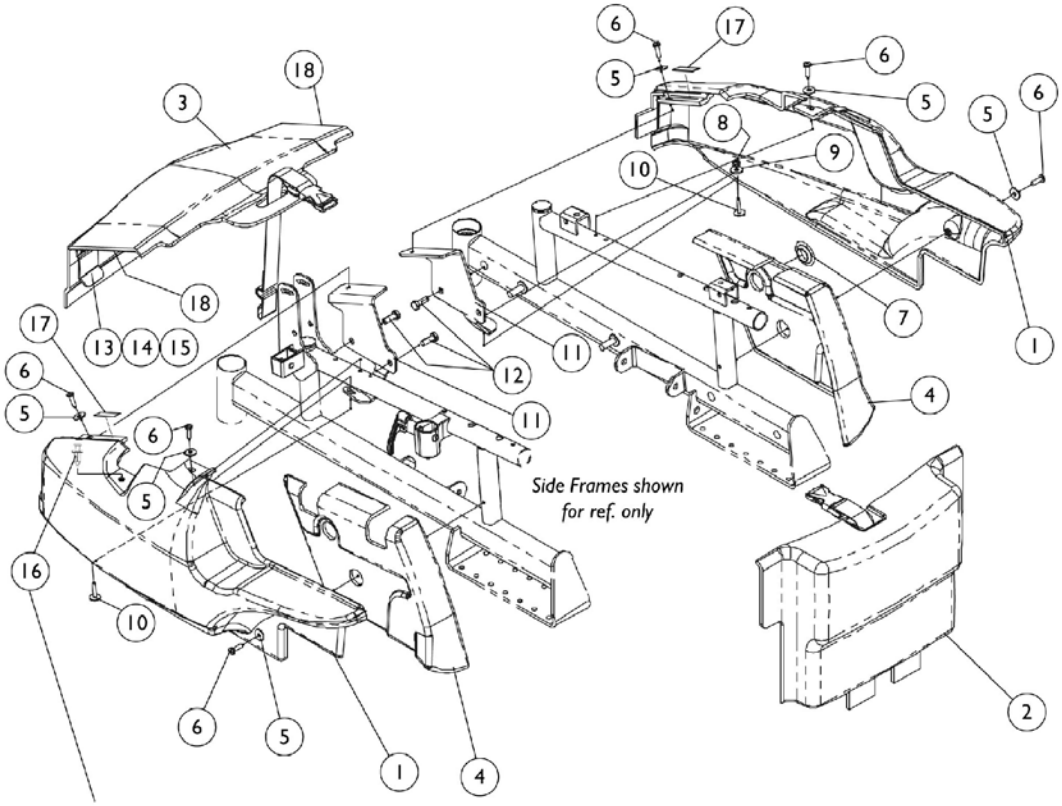
NOTE: A - Shroud is No Longer Available. See Shroud pages dated "After 2/29/00" for color conversion options.
B - Decals not included. See page titled, "Packaging, Literature and Decals."
C - Captain seat shrouds in 18" wide only.

Shroud Covers - Before 3/1/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-4		See Chart	Item #'s 1-4 Shroud Covers	1	1
5	A	1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6	A	1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		1089724	Plug Button, Black	1	2
8		7930332	Locknut, High Profile (#10-32)	25	1
9		1070594	Bushing, Rubber	1	1
10		1070575	Screw, Phillips Head (#10-32 x 7/8")	1	2
11		1088261	Bracket, Shroud, Right	1	1
11		1088262	Bracket, Shroud, Left	1	1
12		1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
13		1070577	Plate, Trunk Clip	1	2
14		1070588	Screw, Truss Head (#10-32 x 1/2")	1	4
15		7930332	Locknut, High Profile (#10-32)	25	1
16	B	1088497-NLA	Fastener, Panel (5/8 x 3/4" Long)	1	1
17		1070555	Fastener, Dual Lock (5/8" Wide x 2" Long)	1	2
18		1070556	Fastener, Dual Lock (1" Wide x 2" Long)	1	2
	C,D	1087172	Hardware, Side Panel Attaching	1	1

NOTE: A - After 10/05/99 quantity changed from 8 to 6 when dual lock fastener was added to side panel shrouds and trunk lid. See detail "A" on previous page.
B - Sling Seat Only.
C - Includes Items 5, 6, 10, 11, 12, 15 and 17.
D - Not Shown.

Shroud Covers - After 2/29/00



NOTE: *Panel fastener is not used on high back captain seat shroud covers*

Shroud Covers - After 2/29/00

Item #'s 1-4 Shroud Covers

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Right	1095408 See Note(s) A	1095409 See Note(s) A	1095407 See Note(s) A	1095406-NLA See Note(s) A
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Left	1095412 See Note(s) A	1095413 See Note(s) A	1095411 See Note(s) A	1095410 See Note(s) A
2	Battery Cover Ranger II Only - 16" W	1095392-NLA See Note(s) B	1095393-NLA See Note(s) B	1095391-NLA See Note(s) B	1095390-NLA See Note(s) B
2	Battery Cover Ranger II Only - 18" W	1095396-NLA See Note(s) B	1095397-NLA See Note(s) B	1095395-NLA See Note(s) B	1095394-NLA See Note(s) B
2	Battery Cover Ranger II Only - 20" W	1095400-NLA See Note(s) B	1095401-NLA See Note(s) B	1095399-NLA See Note(s) B	1095398-NLA See Note(s) B
3	Trunk Lid - 16" W	1095416-NLA See Note(s) B	1095417-NLA See Note(s) B	1095415-NLA See Note(s) B	1095414-NLA See Note(s) B
3	Trunk Lid - 18" W	1095420-NLA See Note(s) B	1095421-NLA See Note(s) B	1095419-NLA See Note(s) B	1095418-NLA See Note(s) B
3	Trunk Lid - 20" W	1095424-NLA See Note(s) B	1095425-NLA See Note(s) B	1095423-NLA See Note(s) B	1095422-NLA See Note(s) B
4	Filler without Plug Button (Captain) (Black only) - Right	1088309	1088309	1088309	1088309
4	Filler without Plug Button (Captain) (Black only) - Left	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA
4	Filler without Plug Button (Sling Seat) (Black only) - Right	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA
4	Filler without Plug Button (Sling Seat) (Black only) - Left	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA
	Color Conversion Package, Ranger II - 16" W	1096899 See Note(s) B, A, C, D	1096900 See Note(s) B, A, D, C	1096898 See Note(s) B, D, C, A	1096897 See Note(s) B, D, C, A

Shroud Covers - After 2/29/00

Item #'s 1-4 Shroud Covers

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
	Color Conversion Package, Ranger II - 18" W	1096895 See Note(s) B, C, A, D	1096896 See Note(s) B, C, D, A	1096894 See Note(s) B, A, D	1096893 See Note(s) B, A, D
	Color Conversion Package, Ranger II - 20" W	1096903 See Note(s) D, C	1096904 See Note(s) D	1096902 See Note(s) D, C	1096901 See Note(s) D, C
	Color Conversion Package, Excel - 16" W	1096915-NLA See Note(s) D, C	1096916-NLA See Note(s) D, C	1096914-NLA See Note(s) D	1096913-NLA See Note(s) D
	Color Conversion Package, Excel - 18" W	1096911-NLA See Note(s) D, C	1096912-NLA See Note(s) D, C	1096910-NLA See Note(s) D, C	1096909-NLA See Note(s) B, A, C, D
	Color Conversion Package, Excel - 20" W	1096919-NLA See Note(s) B, C, D, A	1096920-NLA See Note(s) B, C, A, D	1096918-NLA See Note(s) B, A, D, C	1096917-NLA See Note(s) B, D, A, C

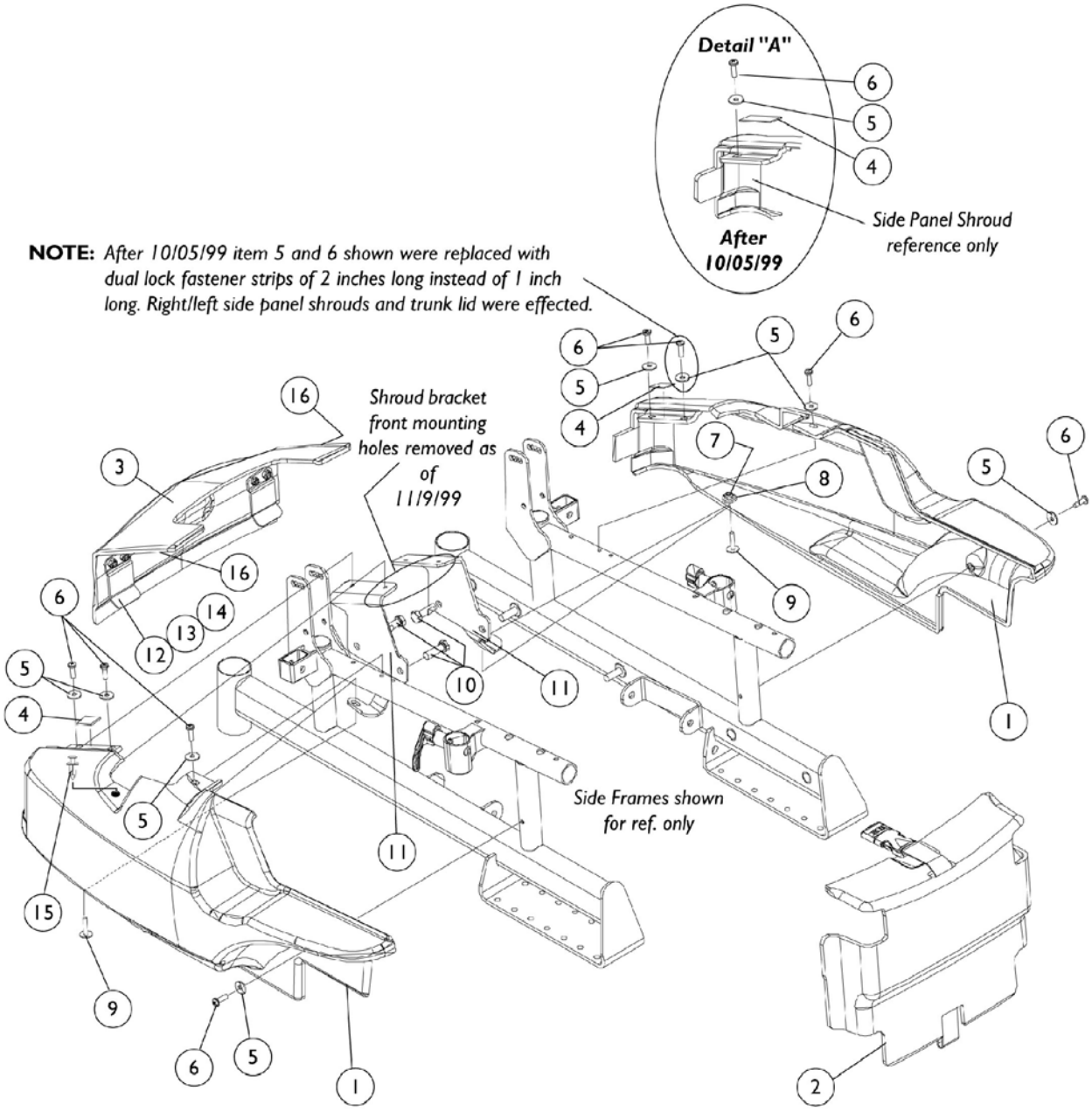
NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals."
B - Captain seat shrouds in 18" wide only.
C - Not Shown.
D - Includes Items 1, 3, 5, 6, 8, 10, 16 and 17.

Shroud Covers - After 2/29/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-4		See Chart	Item #'s 1-4 Shroud Covers	1	1
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	6
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	6
7		1089724	Plug Button, Black	1	2
8		7930332	Locknut, High Profile (#10-32)	25	1
9		1070594	Bushing, Rubber	1	1
10		1070575	Screw, Phillips Head (#10-32 x 7/8")	1	2
11		1088261	Bracket, Shroud, Right	1	1
11		1088262	Bracket, Shroud, Left	1	1
12		1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
13		1070577	Plate, Trunk Clip	1	2
14		1070588	Screw, Truss Head (#10-32 x 1/2")	1	4
15		7930332	Locknut, High Profile (#10-32)	25	1
16	C	1088497-NLA	Fastener, Panel (5/8 x 3/4" Long)	1	1
17		1070555	Fastener, Dual Lock (5/8" Wide x 2" Long)	1	2
18		1070556	Fastener, Dual Lock (1" Wide x 2" Long)	1	2
	A,B	1087172	Hardware, Side Panel Attaching	1	1

NOTE: A - Not Shown.
B - Includes Items 5, 6, 10, 11, 12, 15, and 17.
C - Sling Seat Only.

Shroud Covers
R2 jr. (14" Wide)
Before 3/1/00


Detail "A"
After 10/05/99
Side Panel Shroud reference only
NOTE: After 10/05/99 item 5 and 6 shown were replaced with dual lock fastener strips of 2 inches long instead of 1 inch long. Right/left side panel shrouds and trunk lid were effected.
Shroud bracket front mounting holes removed as of 11/9/99
Side Frames shown for ref. only

Shroud Covers
R2 jr. (14" Wide)
Before 3/1/00

Item #'s 1-3 Shroud Covers

R2 jr. (14" Wide)

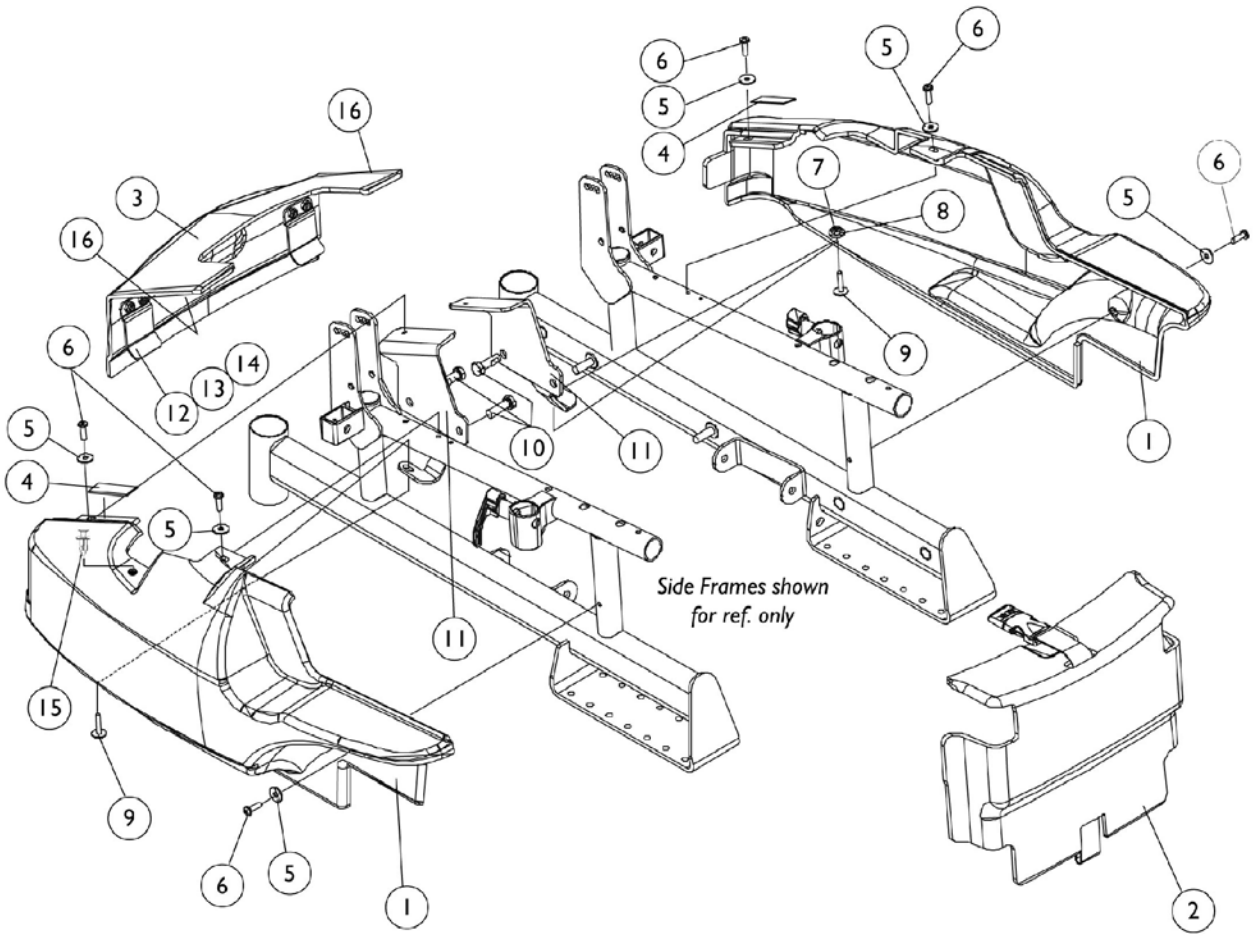
Item Number	Description	Bright Plum Metallic	Bright Blue Metallic	Blue Green Chameleon	Candy Apple Red	Bright Silver Metallic
1	Side Panel with Rubber Bushing (Sling Seat) - Right	1087147-NLA See Note(s) A, B	1087148-NLA See Note(s) A, B	1087149-NLA See Note(s) A, B	1087150-NLA See Note(s) A, B	1087151 See Note(s) A, B
1	Side Panel with Rubber Bushing (Sling Seat) - Left	1087152 See Note(s) A, B	1087153-NLA See Note(s) A	1087154-NLA See Note(s) A	1087155-NLA See Note(s) A	1087156-NLA See Note(s) A
2	Battery Cover	1085572-NLA See Note(s) B	1085573-NLA See Note(s) B	1085574-NLA See Note(s) B	1085575-NLA See Note(s) B	1086623-NLA See Note(s) B
3	Trunk Lid	1086181-NLA See Note(s) B	1086182-NLA See Note(s) B	1086183-NLA See Note(s) B	1086184-NLA See Note(s) B	1086185-NLA See Note(s) B

NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals."
B - These Shrouds are no longer available. See page titled, "Shroud Covers - After 2/29/00" for color conversion options.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	Item #'s 1-3 Shroud Covers	1	1
4		1070555	Fastener, Dual Lock (5/8" Wide x 2" Long)	1	2
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		7930332	Locknut, High Profile (#10-32)	25	1
8		1070594	Bushing, Rubber	1	2
9		1070575	Screw, Phillips Head (#10-32 x 7/8")	1	2
10		1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
11		1088261	Bracket, Shroud, Right	1	1
11		1088262	Bracket, Shroud, Left	1	1
12		1070577	Plate, Trunk Clip	1	2
13		1070588	Screw, Truss Head (#10-32 x 1/2")	1	4
14		7930332	Locknut, High Profile (#10-32)	25	1
15		1088497-NLA	Fastener, Panel (5/8 x 3/4" Long)	1	1
16		1070556	Fastener, Dual Lock (1" Wide x 2" Long)	1	2
	A,B	1086186	Hardware, Side Panel Attaching	1	1

NOTE: A - Not Shown.
B - Includes Items 4-7 and 9-11.

Shroud Covers
R2 jr. (14" Wide)
After 2/29/00



Shroud Covers
R2 jr. (14" Wide)
After 2/29/00

Item #'s 1-3 Shroud Covers

R2 jr. (14" Wide)
After 2/29/00

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
1	Side Panel with Rubber Bushing - Right	1095408 See Note(s) A	1095409 See Note(s) A	1095407 See Note(s) A	1095406-NLA See Note(s) A
1	Side Panel with Rubber Bushing - Left	1095412 See Note(s) A	1095413 See Note(s) A	1095411 See Note(s) A	1095410 See Note(s) A
2	Battery Cover	1095388-NLA	1095389-NLA	1095387-NLA	1095386-NLA
3	Trunk Lid	1095404-NLA	1095405-NLA	1095403-NLA	1095402-NLA
	Color Conversion Package	1096907 See Note(s) B, C, A	1096908 See Note(s) A, C, B	1096906 See Note(s) A, B, C	1096905 See Note(s) B, C, A

NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals."
B - Includes Items 1-7, 9, 15.
C - Not Shown.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	Item #'s 1-3 Shroud Covers	1	1
4		1070555	Fastener, Dual Lock (5/8" Wide x 2" Long)	1	2
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		7930332	Locknut, High Profile (#10-32)	25	1
8		1070594	Bushing, Rubber	1	2
9		1070575	Screw, Phillips Head (#10-32 x 7/8")	1	2
10		1050161	Screw, Hex Head Cap with Patch (5/16-18 x 1")	1	3
11		1088261	Bracket, Shroud, Right	1	1
11		1088262	Bracket, Shroud, Left	1	1
12		1070577	Plate, Trunk Clip	1	2
13		1070588	Screw, Truss Head (#10-32 x 1/2")	1	4
14		7930332	Locknut, High Profile (#10-32)	25	1
15		1088497-NLA	Fastener, Panel (5/8 x 3/4" Long)	1	1
16		1070556	Fastener, Dual Lock (1" Wide x 2" Long)	1	2
	A,B	1086186	Hardware, Side Panel Attaching	1	1

NOTE: A - Not Shown.
B - Includes Items 4-7 and 9-11.

Front Riggings Reference Chart

Support Assemblies

Riggings	Color Right	Color Left	Chrome Right	Chrome Left
PW93	8881070776	8881070777	N/A	N/A
PW93ST	8881070784	8881070785	N/A	N/A
PW93E	8881070768	8881070769	N/A	N/A
P93M	8881037836	8881037837	N/A	N/A
P904A (14-20" W)	8881058646 See Note(s) A	8881058647 See Note(s) A	N/A See Note(s) A	N/A See Note(s) A
PAS4A/PAL4A (14-20" W)	N/A	N/A	1058482 See Note(s) A	1058483 See Note(s) A
NOTE: A - Calf pads and attaching hardware not included with legrest. See page titled "Calf Pads and Attaching Harware."				

Pivot/Slide Tube with Footplate
P93M

Side	Alumunim Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)
14"W - Right	1058573	N/A	1031928
14"W - Left	1058574	N/A	1031929
16-20"W - Right	1057969	1028892	1031924
16-20"W - Left	1057970	1028893	1031925
16-20"W 2" Longer - Right	N/A	N/A	1086519
16-20"W 2" Longer - Left	N/A	N/A	1086523
16-20"W 4" Longer - Right	N/A	N/A	1086520
16-20"W 4" Longer - Left	N/A	N/A	1086524
NOTE: The Pivot/Slide tube mounting hardware is not included.			

Front Riggings Reference Chart

Pivot/Slide Tube with Footplate
PW93/PW93E

Side	Aluminum Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)	Adjustable Angle Flip-up Footplate (AT5543)
14"W - Right	1041542	N/A	1086790	1060444
14"W - Left	1041543	N/A	1086791	1060445
16-20"W - Right	1074149	1074151	1026395	1062756
16-20"W - Left	1074150	1074152	1026396	1062757
16-20"W 2" Longer - Right	1086494	N/A	1086515	N/A
16-20"W 2" Longer - Left	1086497	N/A	1086517	N/A
16-20"W 4" Longer - Right	1086495	N/A	1086516	N/A
16-20"W 4" Longer - Left	1086498	N/A	1086518	N/A
NOTE: The Pivot/Slide tube mounting hardware is not included.				

Pivot/Slide Tube with Footplate
PW93ST

Side	Composite Footplate (1651)
16-20"W - Right	1057859
16-20"W - Left	1057860
NOTE: The Pivot/Slide tube mounting hardware is not included.	

Front Riggings Reference Chart

Pivot/Slide Tube with Footplate
PAS4A

Side	Aluminum Footplate (Standard - 1650)	Extra Large Aluminum Footplate (1350)
14"W - Right	1023905	1035454
14"W - Left	1023906	1035455
NOTE: The Pivot/Slide tube mounting hardware is not included.		

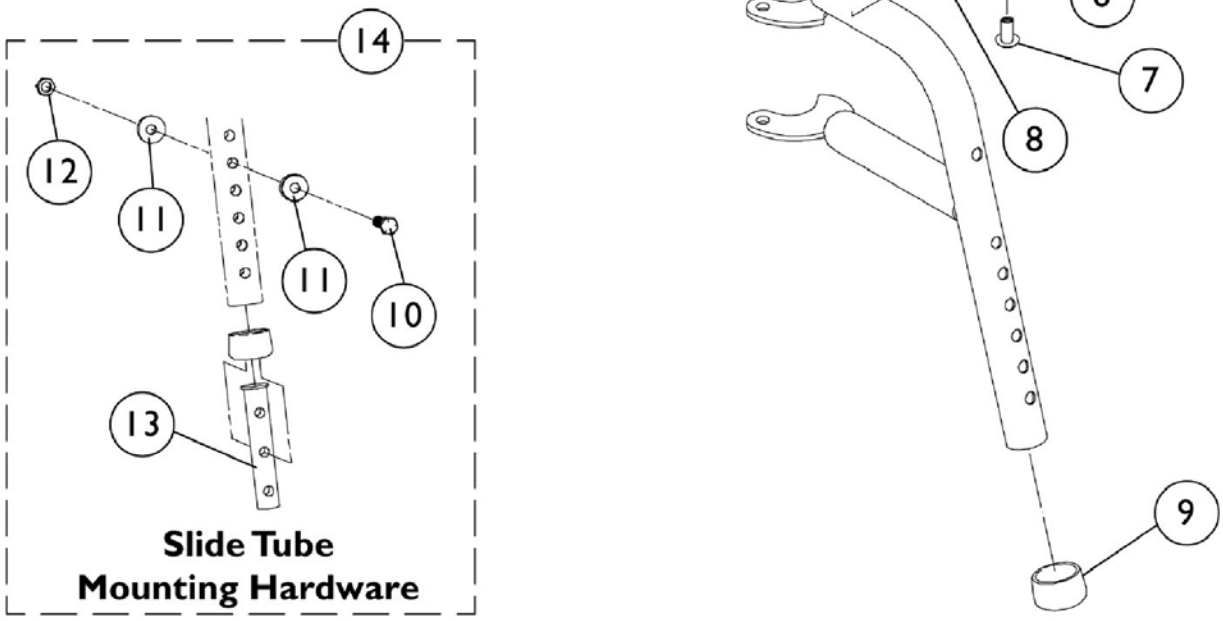
Pivot/Slide Tube with Footplate
PAL4A

Side	Aluminum Footplate (Standard - 1650)	Extra Large Aluminum Footplate (1350)
16-20"W - Right	1023907	1035456
16-20"W - Left	1023908	1035457
NOTE: The Pivot/Slide tube mounting hardware is not included.		

Pivot/Slide Tube with Footplate
P904A

Side	Aluminum Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)
14"W - Right	1058612	N/A	1058828
14"W - Left	1058613	N/A	1058829
16-20"W - Right	1058604	1028723	1058830
16-20"W - Left	1058605	1028724	1058831
16-20"W 2" Longer - Right	1086529	N/A	1086541
16-20"W 2" Longer - Left	1086531	N/A	1086551
16-20"W 4" Longer - Right	1086530	N/A	1086542
16-20"W 4" Longer - Left	1086532	N/A	1086552
NOTE: The Pivot/Slide tube mounting hardware is not included.			

PW93 Footrest Supports

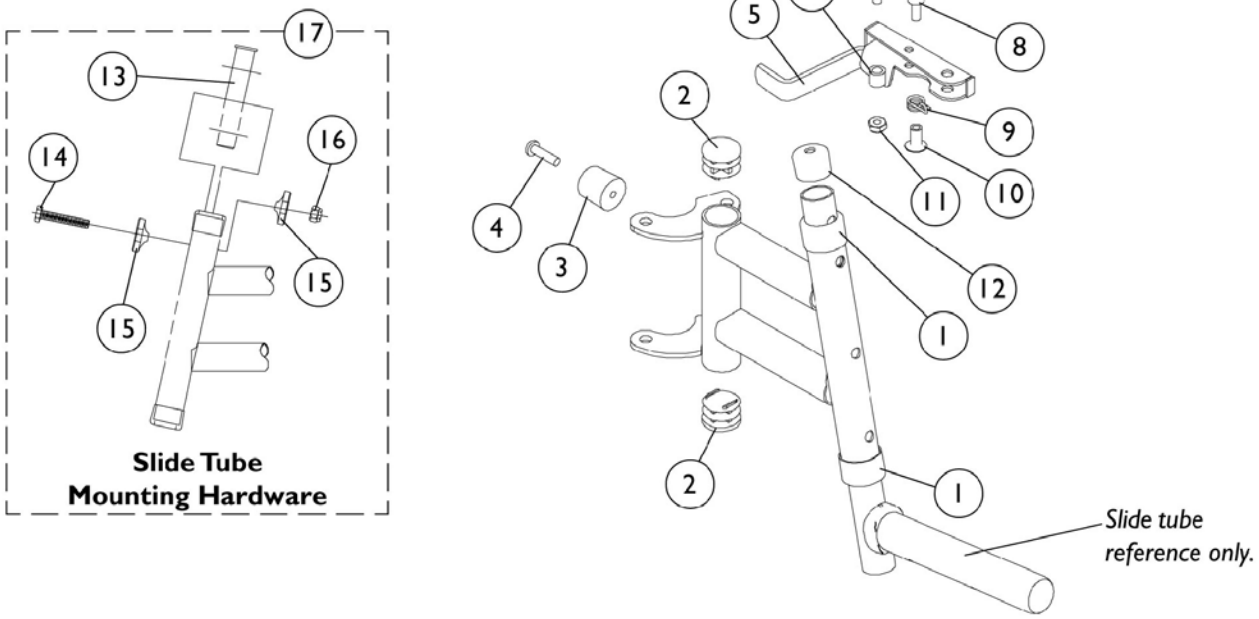


PW93 Footrest Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1020719	Anti-Rattle, Black	1	1
2		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
3		7930328	Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
4		7930335	Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
5		1035539	Handle, Release (Black) - Right	1	1
5		1035540	Handle, Release (Black) - Left	1	1
6		7930332	Locknut, High Profile (#10-32)	25	1
7		1028846	Rivnut (#10-32)	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		15680X012	Collar, Anti-Rattle (7/8")	1	1
10		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
11		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	2
12		7930338	Nut, Acorn (1/4-20)	25	1
13		1020534	Insert, Threaded	1	1
14		1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	8881070776	Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881070777	Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - Not Shown.
B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."

PW93E Footrest Supports

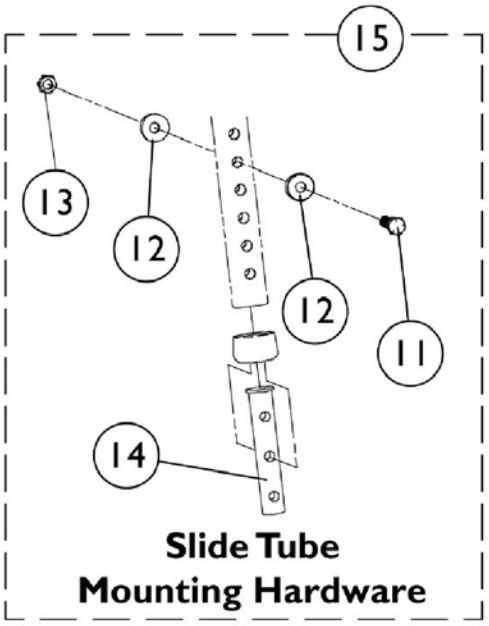


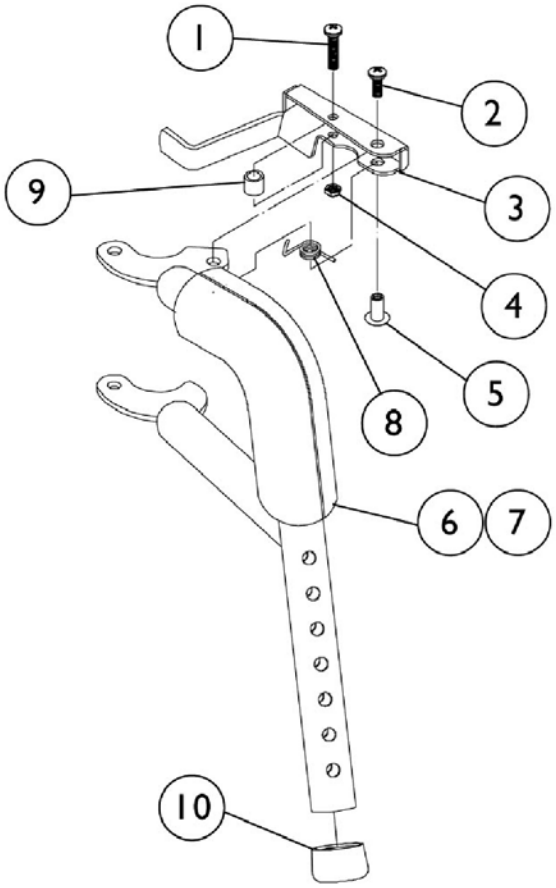
PW93E Footrest Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		15680X012	Collar, Anti-Rattle (7/8")	1	2
2		1027095	Plug Button, Black (7/8")	1	2
3		1022874	Bumper	1	1
4		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
5		1035539	Handle, Release (Black) - Right	1	1
5		1035540	Handle, Release (Black) - Left	1	1
6		1025716	Screw, Phillips Pan Head (#10-32 x 11/16")	1	1
7		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
8		1026114	Screw, Phillips Pan Head (#10-32 x 1/2")	1	1
9		1028707	Spring, Release - Right	1	1
9		1028708	Spring, Release - Left	1	1
10		1028846	Rivnut (#10-32)	1	1
11		1025735	Locknut (#10-32)	1	1
12		1074108	Cap, End Tube (3/4")	1	1
13		1020534	Insert, Threaded	1	1
14		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
15		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	1
16		1044214	Nut, Hex with Nylon Cap (1/4-20)	1	1
17		1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	8881070768	Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881070769	Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - Not Shown.
B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."

PW93ST Footrest Support



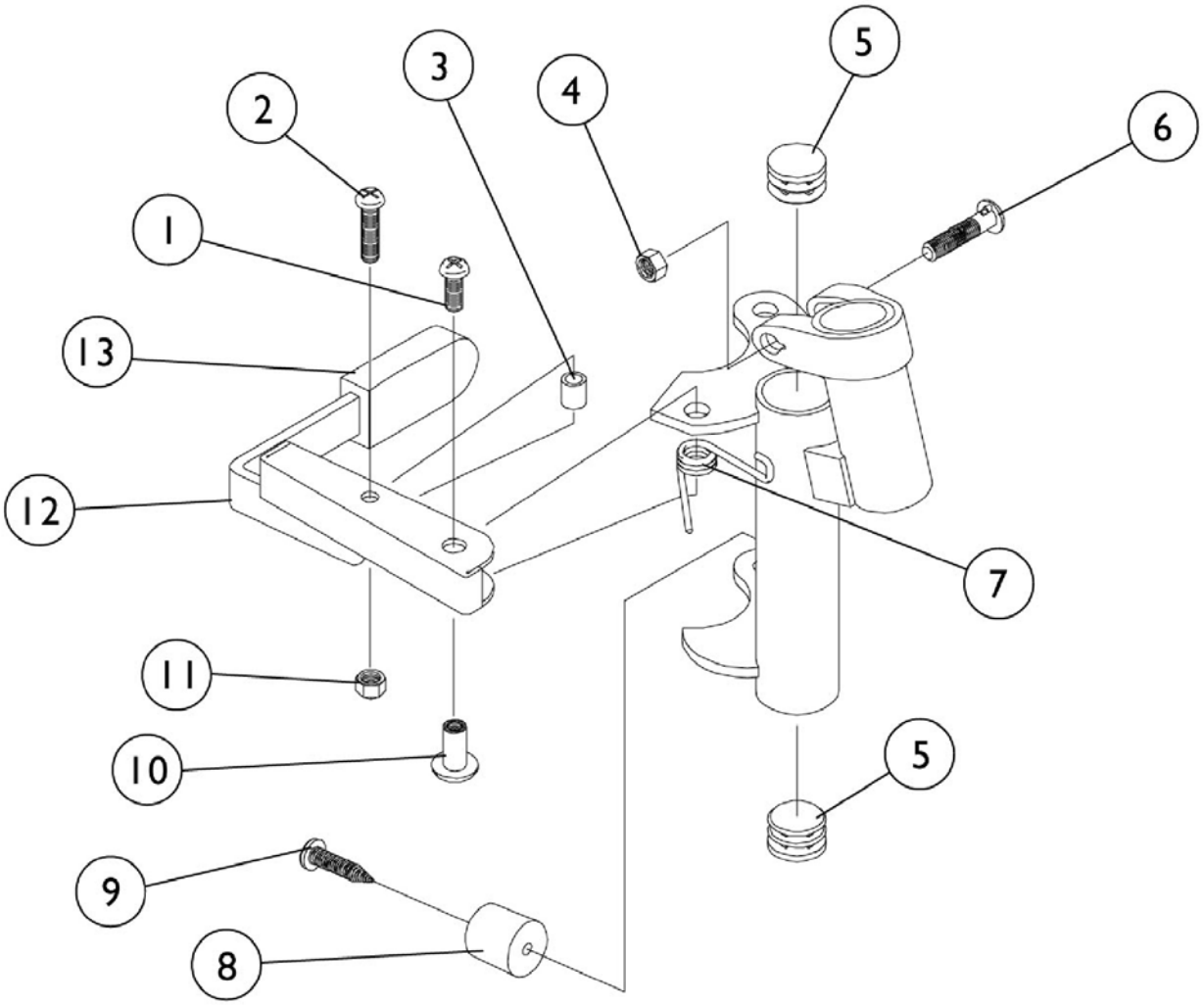


PW93ST Footrest Support

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930328	Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
2		7930335	Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
3		1035539	Handle, Release (Black) - Right	1	1
3		1035540	Handle, Release (Black) - Left	1	1
	A,B	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
	A,B	1028485-NLA	Nut, Hex (#10-32)	1	1
4		7930332	Locknut, High Profile (#10-32)	25	1
5		1028846	Rivnut (#10-32)	1	1
6		1030434	Cushion, Tubular Foam	1	1
7		1030435	Cover, Foam Cushion	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
10		15680X012	Collar, Anti-Rattle (7/8")	1	1
11		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
12		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	2
13		7930338	Nut, Acorn (1/4-20)	25	1
14		1020534	Insert, Threaded	1	1
15	D	1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	1006490	Tip, Plastic, Black	1	1
	B,C	8881070784	Footrest Support Assembly, Adult, Color - Right	1	1
	B,C	8881070785	Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - These items are only required on Release Handles for chairs Before 10/1/00.
B - Not Shown.
C - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
D - Per Side.

P93M Footrest Supports

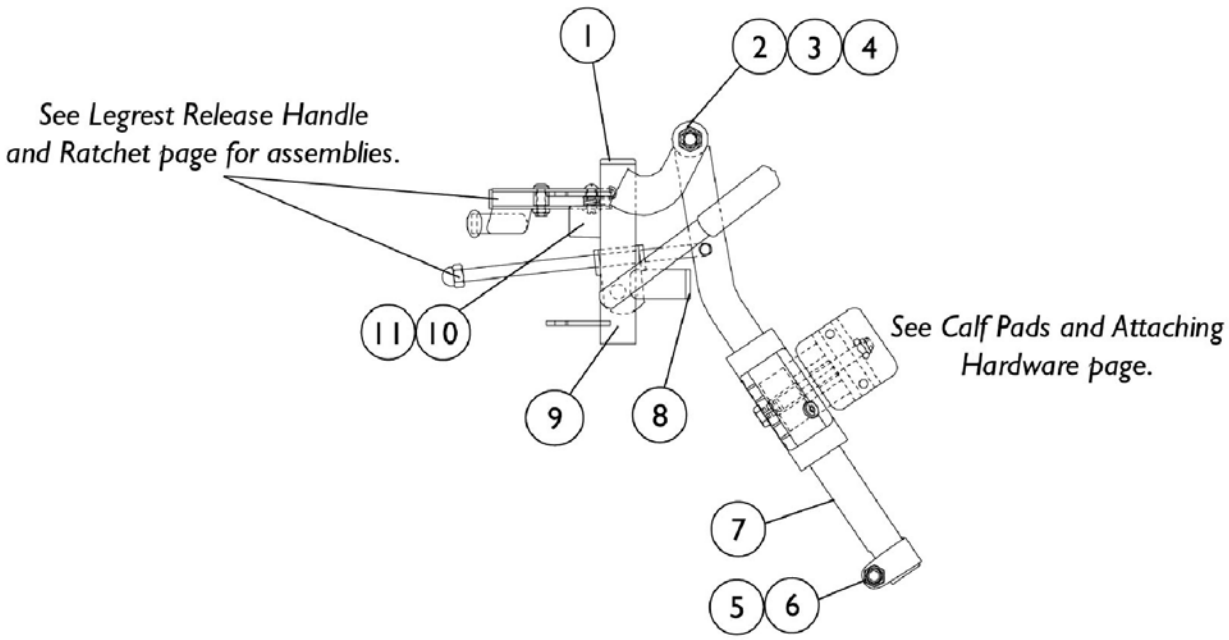


P93M Footrest Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930359	Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
2		7930360	Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
3		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
4		1107321	Nut, Low Cap (5/16"-24)	1	1
5		1027095	Plug Button, Black (7/8")	1	2
6		11232X009	Screw, Lug (5/16-24 x 1-3/8")	1	1
7		1008935	Spring, Release - Right	1	1
7		1008936	Spring, Release - Left	1	1
8		1022874	Bumper	1	1
9		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
10		67005X000	Rivnut (#10-32)	1	1
11		7930365	Locknut (#10-32)	25	1
12		1035539	Handle, Release (Black) - Right	1	1
12		1035540	Handle, Release (Black) - Left	1	1
13		1006490	Tip, Plastic, Black	1	1
	A,B	8881037836	Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881037837	Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - Not Shown.
B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."

P904A Legrest Supports

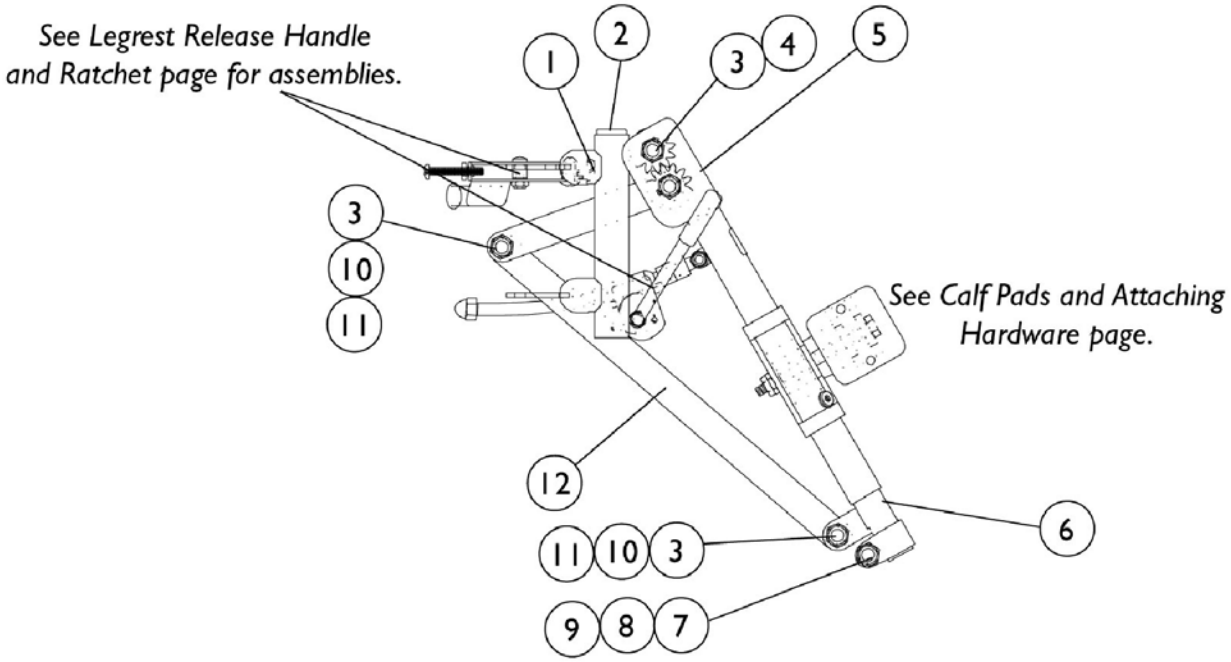


P904A Legrest Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027095	Plug Button, Black (7/8")	1	1
2		11919X000	Screw, Truss Head (3/8-16 x 1-1/2")	1	1
3		1058636	Washer, Nylon (25/64 x 7/8 x 1/32")	1	2
4		40363X000	Hex Nut (3/8"-16)	1	1
5		7930330	Locknut (5/16-24)	25	1
6		1026030	Screw, Lug (5/16-24 x 1-3/8")	1	1
7	A	8881048851	Tube, Elevating Support (Color) - Right	1	1
7	A	8881048852	Tube, Elevating Support (Color) - Left	1	1
8		1027097	Plug Button, Black (3/4")	1	1
9	A	8881058664	Tube, Legrest Support (Color) - Right	1	1
9	A	8881058665	Tube, Legrest Support (Color) - Left	1	1
10		1022874	Bumper	1	1
11		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
	A,B	8881058646	Legrest Support Assembly w/o Pad, Adult, Color - Right	1	1
	A,B	8881058647	Legrest Support Assembly w/o Pad, Adult, Color - Left	1	1

NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Not Shown.

PAS4A/PAL4A Articulating Legrest Supports

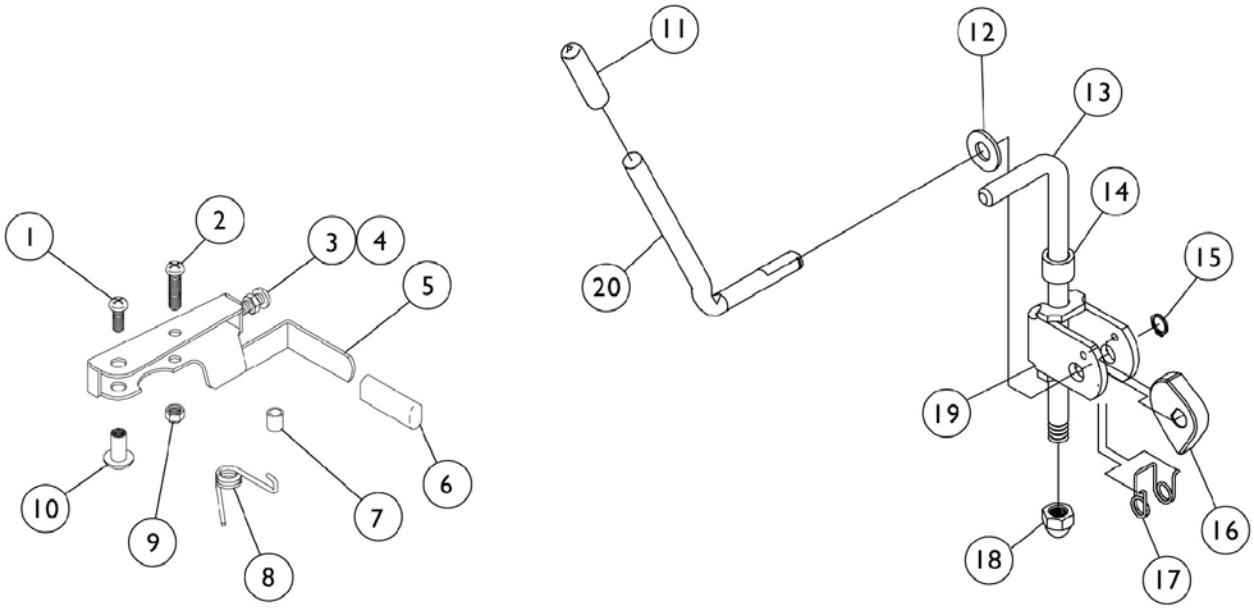


PAS4A/PAL4A Articulating Legrest Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1058478	Tube, Legrest Support, Right	1	1
1		1058479	Tube, Legrest Support, Left	1	1
2		1027097	Plug Button, Black (3/4")	1	1
3		40363X000	Hex Nut (3/8"-16)	1	3
4		1022854	Screw, Slotted Head Shoulder (1/2 x 1-1/8")	1	1
5		1022877	Tube Support and Drive Link - Right	1	1
5		1022878	Tube Support and Drive Link - Left	1	1
6		1022848	Slide Tube, Articulating (Chrome) - Right	1	1
6		1022849	Slide Tube, Articulating (Chrome) - Left	1	1
7		1027377	Washer (#20)	1	1
8		7930363	Package, Locknut (5/16"-24)	25	1
9		11232X009	Screw, Lug (5/16-24 x 1-3/8")	1	1
10		1022866	Screw, Socket Button Head (3/8-16 x 3/4")	1	2
11		1049527	Washer, Nylon (3/8 x 3/4 x 1/16")	1	2
12		1022846	Bar, Link, Chrome	1	1
	A	1058482	Legrest Support, Articulating (Chrome) - Right	1	1
	A	1058483	Legrest Support, Articulating (Chrome) - Left	1	1

NOTE: A - Not Shown.

Legrest Release Handle and Ratchet

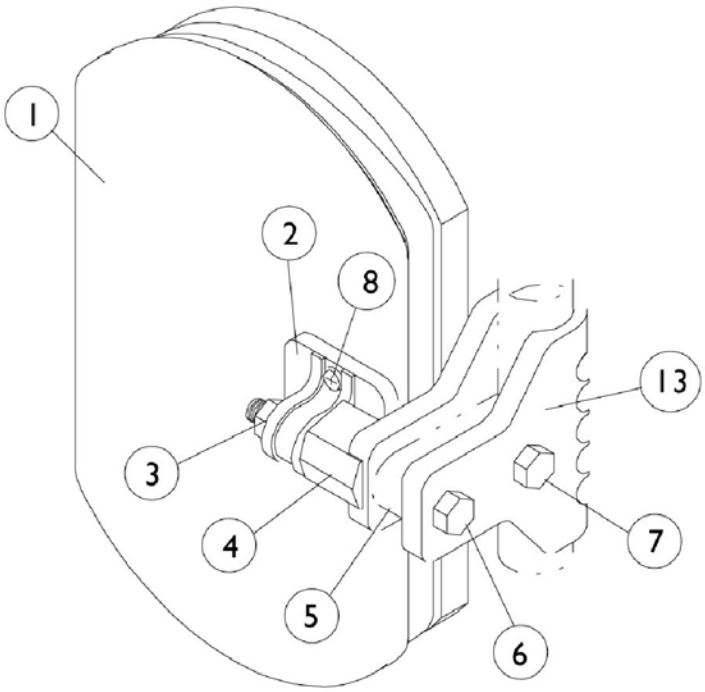


Legrest Release Handle and Ratchet

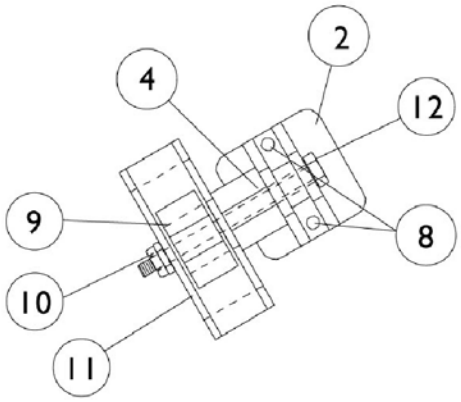
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930328	Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
2		7930335	Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
3	A	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
4	A	1028485-NLA	Nut, Hex (#10-32)	1	1
5		1035539	Handle, Release (Black) - Right	1	1
5		1035540	Handle, Release (Black) - Left	1	1
6	A	1006490	Tip, Plastic, Black	1	1
7		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		7930332	Locknut, High Profile (#10-32)	25	1
10		1028846	Rivnut (#10-32)	1	1
11		1040060	Tip, Black Plastic	1	1
12		7930310	Washer, Nylon (5/16 x 11/16 x 1/16")	25	1
13	B	42326X004	Bar, Ratchet - Right/Left	1	1
13	C	1023811	Bar, Ratchet - Right	1	1
13	C	1023812	Bar, Ratchet - Left	1	1
14		47330X003	Spacer (5/16 x 1/2 x 3/8")	2	2
15		1040831	Snap Ring	1	1
16		1037125	Cam, Legrest	1	1
17		1037485	Spring, Release	1	1
18		7930336	Nut, Acorn (5/16-24)	25	1
19		04528X002	Bracket, Release (Chrome)	1	1
20		1037126	Handle, Release	1	1

NOTE: A - These items are only required on Release Handles for chairs built before 10/1/00.
B - 904 Legrest.
C - Articulating Legrest.

Calf Pads and Attaching Hardware



904 Legrest



PAL4A/PAS4A
Articulating Legrest

Calf Pads and Attaching Hardware

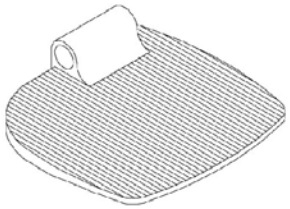
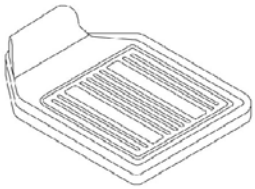
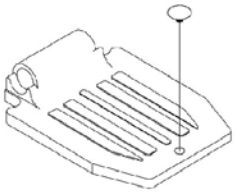
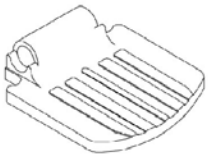
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,B	88804529X003	Pad, Legrest Vinyl - Right	1	1
1	A,B	88804529X004	Pad, Legrest Vinyl - Left	1	1
1	A,C,D	8881091759	Pad w/Cover and Screws, Legrest Vinyl (Pair)	2	1
1	A,C,E	8881091764	Pad, Legrest Vinyl - Right/Left	1	1
1		01415X000-NLA	Cover, Legrest Pad	1	1
2		04526X019	Plate, Legrest Pad	1	1
3		7930330	Locknut (5/16-24)	25	1
4		1025133	Spacer, Legrest Pad	1	1
5		1032267	Spacer, Legrest Pad Mounting	1	1
6		1037110	Screw, Hex Head (5/16-24 x 3-1/2")	1	1
7		1028514	Screw, Hex Head (5/16-24 x 1-1/2")	1	1
8		1066591	Screws, Phillips Head (#10-32 x 11/16")	2	1
9		48823X008	Spring, Leaf	1	1
10		7930363	Package, Locknut (5/16"-24)	25	1
11		1025104	Bracket, Legrest (Chrome)	1	1
12		1014807	Screw, Hex Head (5/16-24 x 3-1/4")	1	1
13		1032266	Bracket, Legrest Pad Mounting	1	1

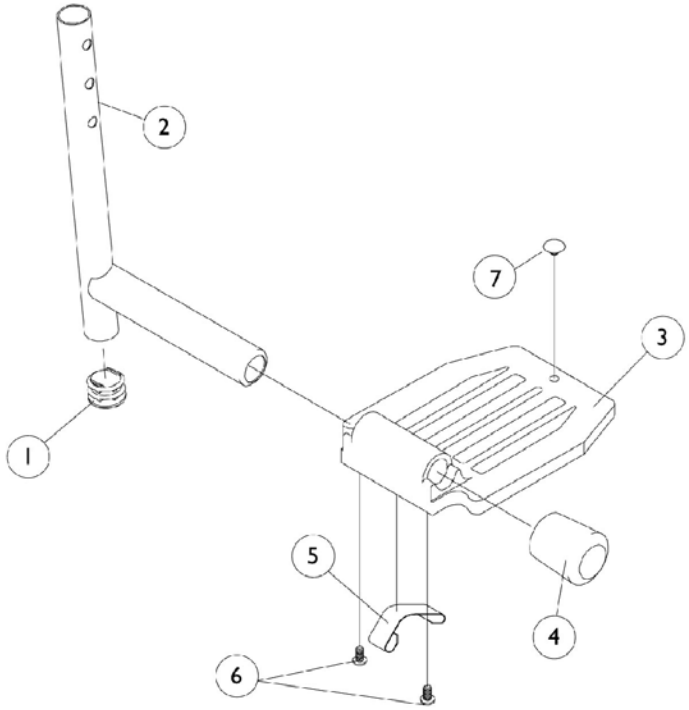
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - 14" Wide - R2 jr.
C - 16-20" Wide.
D - Before 9/5/00.
E - After 9/4/00.

Pivot/ Slide Tube and Footplate

PW93, PW93E

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
1350 Extra large	1450 Deluxe	16" to 20" Wide Standard Alum.	14" Wide Standard Alum.



Pivot/ Slide Tube and Footplate

PW93, PW93E

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

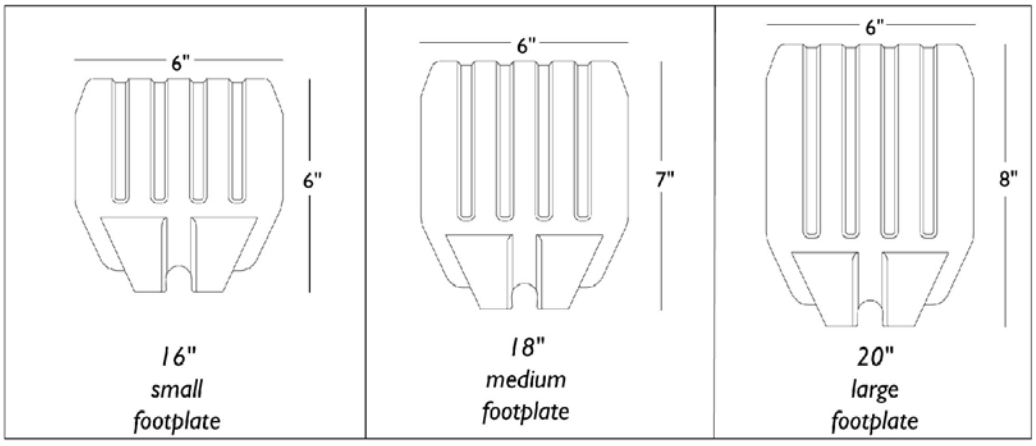
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	A,B	1048834	Pivot/Slide Tube with Plug Button	1	1
2	C	1070762	Pivot/Slide Tube with Plug Button, Deluxe Aluminum	1	1
2	B,C	1098906	Pivot/Slide Tube with Plug Button - 2" Longer	1	1
2	B,C	1086482	Pivot/Slide Tube with Plug Button - 4" Longer	1	1
3	D	44200X059	Footplate, Aluminum - Small (6-3/4" W x 6" L)	1	1
3		44200X027	Footplate, Aluminum - Medium (7-3/4" W x 6" L)	1	1
3		1043659	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Right	1	1
3		1043660	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Left	1	1
3	D	1002343	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Right	1	1
3	D	1002344	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Left	1	1
3		44200X025	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Right	1	1
3		44200X026	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Left	1	1
4	B	1016346	Cap, Tube End (7/8")	1	1
4	A	1027095	Plug Button, Black (7/8")	1	1
5	B	1006981	Spring, Leaf	1	1
5	C	1036120	Spring	1	2
5	A	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	1
7		1070168	Push Plug, Footplate	1	1

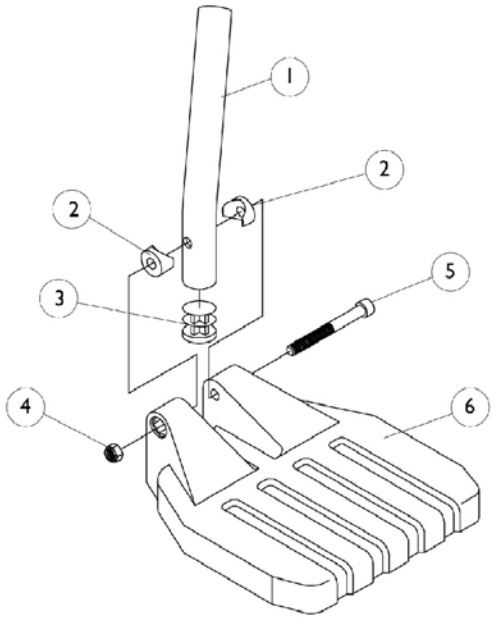
NOTE: A - Extra Large Aluminium Footplate
B - Standard Aluminium Footplate
C - Deluxe Aluminium Footplate
D - 14" Wide (R2jr.)

Pivot/ Slide Tube and Footplate

PW93ST

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".





Pivot/ Slide Tube and Footplate

PW93ST

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

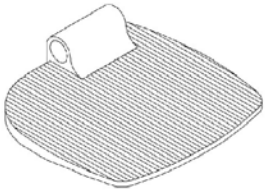
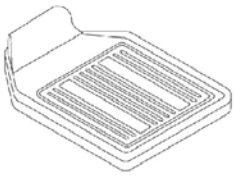
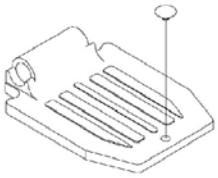
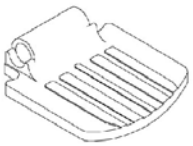
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1120382	Pivot Slide Tube, Curved End - Long (9-7/8" Long)	1	1
1	E	1057852	Pivot/Slide Tube, Curved End (9-7/8") (Steel)	1	1
2		1025457	Spacer, Coved (1/4 x 3/4 x 11/32")	1	2
3		1027097	Plug Button, Black (3/4")	1	1
4		1025195	Locknut (1/4-20)	1	1
5		60285X006	Screw, Socket Head Cap (1/4-20 x 2-1/4")	1	1
6	A	1026879	Footplate, Composite - Small (6" W x 6" L)	1	1
6	B	1026880	Footplate, Composite - Medium (7" W x 6" L)	1	1
6	C	1026881	Footplate, Composite - Large (8" W x 6" L)	1	1

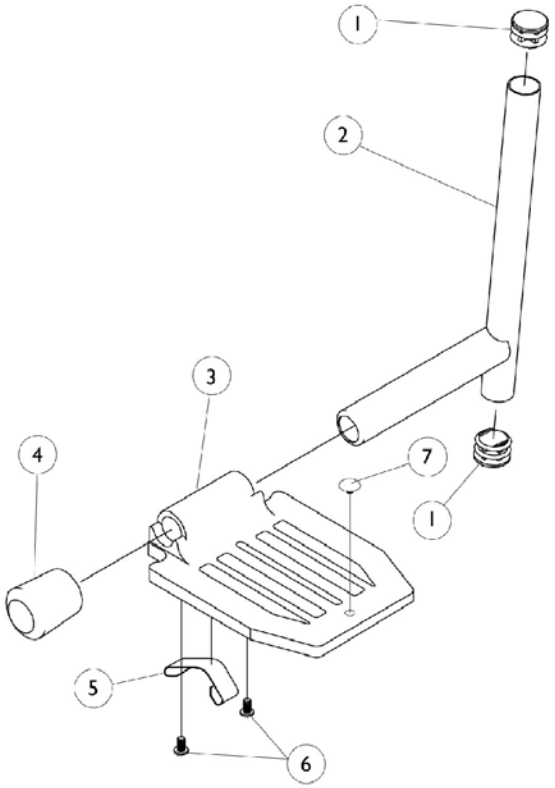
NOTE: A - For chairs 16" wide
B - For chairs 18" wide
C - For chairs 20" wide
D - P93ST
E - PW93ST

Pivot/ Slide Tube and Footplate

P93M

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
1350 Extra large	1450 Deluxe	16" to 20" Wide	14" Wide



Pivot/ Slide Tube and Footplate

P93M

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

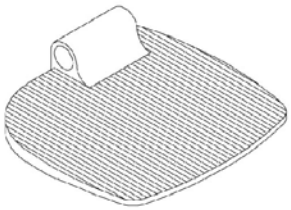
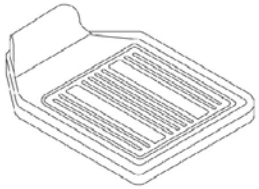
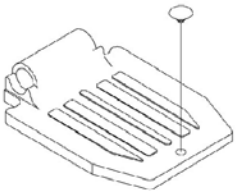
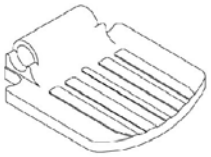
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	A,C,D	1041527	Pivot/Slide Tube with Plug Button (Black)	1	1
2	D	1086479	Pivot Slide Tube with Plug Button, 2" Longer (Black)	1	1
2	D	1086480	Pivot Slide Tube with Plug Button, 4" Longer (Black)	1	1
2		1041525	Pivot/Slide Tube with Plug Button - Deluxe Aluminum	1	1
3	B	44200X059	Footplate, Aluminum - Small (6-3/4" W x 6" L)	1	1
3		44200X027	Footplate, Aluminum - Medium (7-3/4" W x 6" L)	1	1
3		1043659	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Right	1	1
3		1043660	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Left	1	1
3	B	1002343	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Right	1	1
3	B	1002344	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Left	1	1
3		44200X025	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Right	1	1
3		44200X026	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Left	1	1
4	C	1016346	Cap, Tube End (7/8")	1	1
4	D	1027095	Plug Button, Black (7/8")	1	1
5	C	1006981	Spring, Leaf	1	1
5	A	1036120	Spring	1	2
5	D	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	2
7		1070168	Push Plug, Footplate	1	1

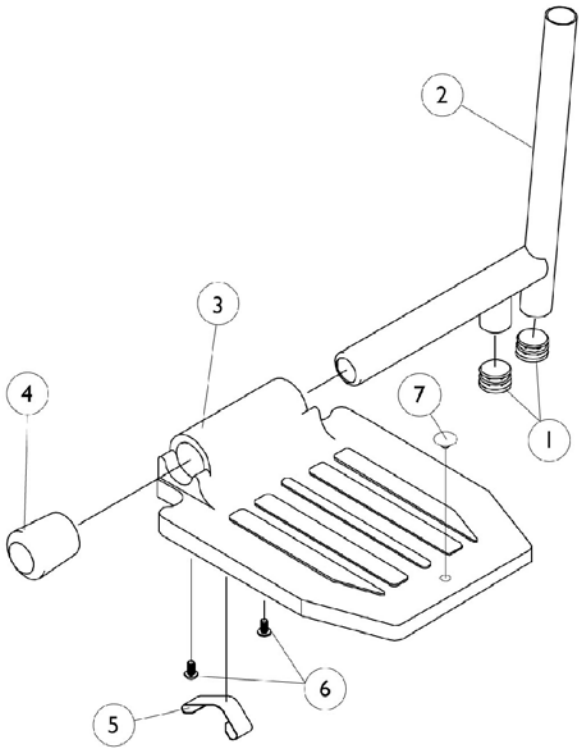
NOTE: A - Deluxe Aluminium Footplate
B - 14" Wide (R2jr.)
C - Standard Aluminium Footplate
D - Extra Large Aluminium Footplate

Pivot/ Slide Tube and Footplate

P904, PAL4A, PAS4A

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
1350 Extra large	1450 Deluxe	16" to 20" Wide	14" Wide



Pivot/ Slide Tube and Footplate

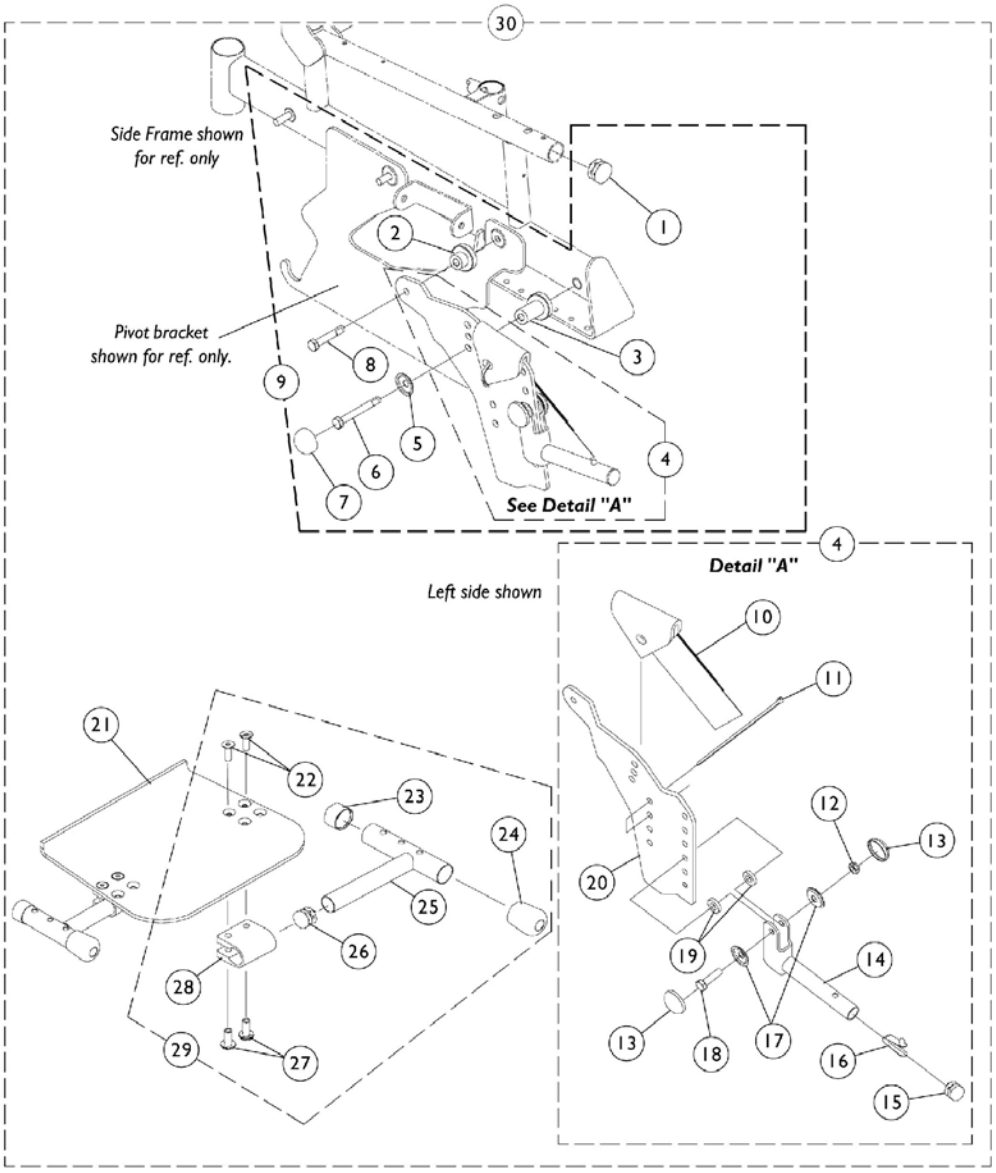
P904, PAL4A, PAS4A

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	B,D,E	1100568	Pivot/Slide Tube with Plug Button (Black)	1	1
2	B	1100569	Pivot/Slide Tube with Plug Button Extra Large and Standard Aluminium - 2" Longer	1	1
2	B,D,E	1100570	Pivot/Slide Tube with Plug Button - 4" Longer	1	1
2	A,D,E	1041526	Pivot/Slide Tube with Plug Button (Steel)	1	1
2	B,F	1100571	Pivot/Slide Tube with Plug Button - Deluxe	1	1
3	C	44200X059	Footplate, Aluminum - Small (6-3/4" W x 6" L)	1	1
3		44200X027	Footplate, Aluminum - Medium (7-3/4" W x 6" L)	1	1
3		1043659	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Right	1	1
3		1043660	Footplate, Aluminum - Deluxe (8" W x 5-3/4" L) - Left	1	1
3	C	1002343	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Right	1	1
3	C	1002344	Footplate, Aluminum - Extra Large (7" W x 8-1/2" L) - Left	1	1
3		44200X025	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Right	1	1
3		44200X026	Footplate, Aluminum - Extra Large (8" W x 8-1/2" L) - Left	1	1
4	D	1016346	Cap, Tube End (7/8")	1	1
4	E	1027095	Plug Button, Black (7/8")	1	1
5	D	1006981	Spring, Leaf	1	2
5	F	1036120	Spring	1	2
5	E	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	1
7		1070168	Push Plug, Footplate	1	1

NOTE: A - PAL4/PAS4A
B - P904
C - 14" Wide (R2jr.)
D - Standard Aluminium Footplate
E - Extra Large Aluminium Footplate
F - Deluxe Aluminium Footplate

Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
Before 3/1/00



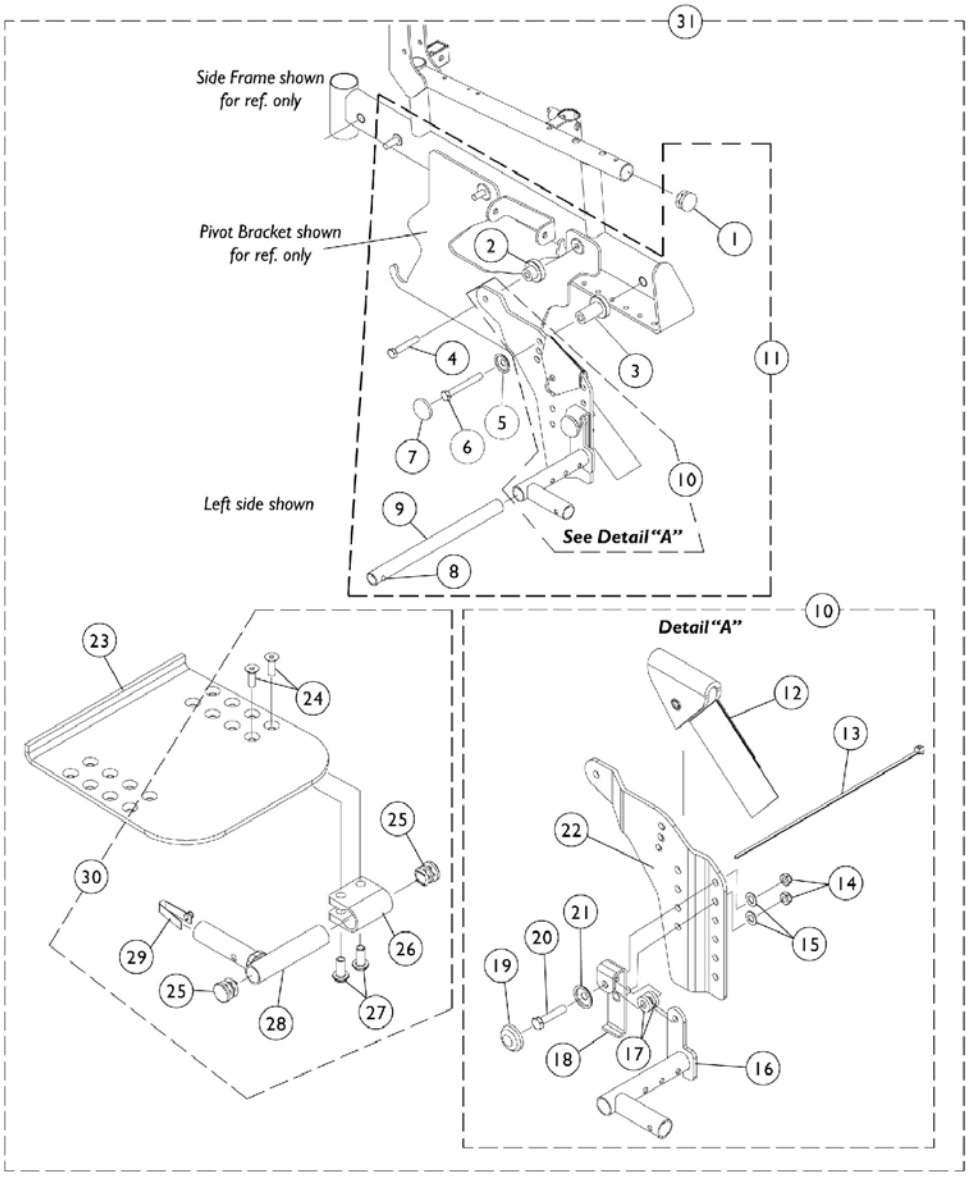
Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
Before 3/1/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1029501	Plug Button, Black (1")	1	2
2		1098936	Bushing, Black (21/64 x 1-1/4 x 23/32")	1	2
3		1098937	Bushing, Black (21/64 x 1-1/4 x 1-19/32")	1	2
4	A	1080730-NLA	Footboard Pivot Assembly, Right	1	1
4	A	1080731-NLA	Footboard Pivot Assembly, Left	1	1
5		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
6		1043628	Screw, Hex Head (5/16-18 x 2-1/2")	1	2
7		1016291	Hub Cap, Black	1	2
8		1043627	Screw, Hex Head Cap with Patch (5/16-18 x 1-3/4")	1	2
9	B	1086111-NLA	Footboard Mounting Hardware (Pair)	2	1
10		1081224	Guard, Footboard Pivot Bracket	1	1
11		98007X005	Cable Tie (11-1/2" Long)	1	2
12		1025730	Locknut (5/16-24)	1	1
13		1016291	Hub Cap, Black	1	2
14		1074130	Pivot Tube	1	1
15		1027097	Plug Button, Black (3/4")	1	1
16		40188X009	Button, Single Snap	1	1
17		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
18		1070552-NLA	Screw, Hex Head (5/16-24 x 1-1/8)	1	1
19		1074210	Washer, Nylon (23/64 x 3/4 x 5/32")	1	2
20		1081217	Bracket, Footrest Mounting, Right	1	1
20		1081218	Bracket, Footrest Mounting, Left	1	1
21	F	1074129-NLA	Footboard	1	1
22	D	1029545	Screw, Socket Head Cap (1/4-20 x 3/4")	1	4
23		15680X012	Collar, Anti-Rattle (7/8")	1	2
24		1016346	Cap, Tube End (7/8")	1	2
25		1074137	Footplate Support Tube, Black	1	2
26		1027097	Plug Button, Black (3/4")	1	2
27	D	1082686	Nut, Hex Head (1/4-20 x 11/16")	1	4
28	D	1058517	Clamp, Footplate	1	2
29	E	1080740	Footboard Assembly Hardware, Pair	2	1
30	C,J	1086110-NLA	Footboard Assem. Kit w/ Instructions	1	1
	I	1078193	Instruction Sheet, Footboard Assembly	1	1
	I	1095105	Footboard Assembly Conversion Kit 16" Wide	1	1
	H,I	1095106	Footboard Assembly Conversion Kit 18" Wide	1	1
	I	1095107	Footboard Assembly Conversion Kit 20" Wide	1	1

Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
Before 3/1/00

NOTE:
A - Includes Items 10-20.
B - Includes Items 1-8.
C - Footboard Assembly Kit before 3/1/00 is NLA. Refer to the Footboard Assembly Conversion Kits provided that will convert to a Footboard Assembly made after 2/29/00. Order according to the chair width. Captain Seats will use the 18" wide conversion kit
D - Items 22, 27, and 28 must be ordered together for chairs manufactured before 8/10/99 due to a hardware change.
E - Includes Items 22-28.
F - Footboard before 3/1/200 is NLA. See page titled "Front Rigging - Adjustable Flip-Up Removable Footboard (After 2/29/00)" and select a footboard according to the chair width
H - Captain Seats will use the 18" wide conversion kit
I - Not Shown. For individual components for the conversion kits, See page titled "Front Rigging - Adjustable Flip-Up Removable Footboard (After 2/29/00)"
J - Includes Items 9, 21, and 29.

Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
After 2/29/00



Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
After 2/29/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1029501	Plug Button, Black (1")	1	2
2		1098936	Bushing, Black (21/64 x 1-1/4 x 23/32")	1	2
3		1098937	Bushing, Black (21/64 x 1-1/4 x 1-19/32")	1	2
4		1043627	Screw, Hex Head Cap with Patch (5/16-18 x 1-3/4")	1	2
5		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
6		1043628	Screw, Hex Head (5/16-18 x 2-1/2")	1	2
7		1016291	Hub Cap, Black	1	2
8		40188X007	Button, Spring Double	1	1
9		1095124	Support Tube w/ Spring Assembly	1	1
10	A	1095101	Footboard Pivot Assembly-Right	1	1
10	A	1095102	Footboard Pivot Assembly-Left	1	1
11	B	1095104	Footboard Mounting Hardware	2	1
12		1081224	Guard, Footboard Pivot Bracket	1	1
13		98007X005	Cable Tie (11-1/2" Long)	1	2
14		1028769	Locknut (5/16-18)	1	2
15		1074210	Washer, Nylon (23/64 x 3/4 x 5/32")	1	2
16		1094614	Bracket, Footboard Receiving, Right	1	1
16		1094615	Bracket, Footboard Receiving, Left	1	1
17		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
18		1094632	Bracket, Stop Pivot Support	1	1
19		1016291	Hub Cap, Black	1	1
20		1070398	Screw, Hex Head (5/16-18 x 1-1/2")	1	1
21		1028491	Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	1
22		1081217	Bracket, Footrest Mounting, Right	1	1
22		1081218	Bracket, Footrest Mounting, Left	1	1
23		1094612	Footboard, Black - 16" Wide Chairs	1	1
23	C	1094613	Footboard, Black - 18" Wide Chairs	1	1
23		1094634	Footboard, Black - 20" Wide Chairs	1	1
24		1029545	Screw, Socket Head Cap (1/4-20 x 3/4")	1	4
25		1027097	Plug Button, Black (3/4")	1	4
26		1058517	Clamp, Footplate	1	2
27		1082686	Nut, Hex Head (1/4-20 x 11/16")	1	4
28		1094611	Support Tube w/ Snap Button	1	2
29		40188X009	Button, Single Snap	1	2
30	D	1095103	Footboard Hardware	1	1
31	E	1095105	Footboard Assembly Conversion Kit 16" Wide	1	1
31	C,E	1095106	Footboard Assembly Conversion Kit 18" Wide	1	1
31	E	1095107	Footboard Assembly Conversion Kit 20" Wide	1	1
	F	1095125	Instruction Sheet, Footboard Assembly	1	1

Adjustable Flip-Up Removable Footboard
90FB2 (Sling Seat) and 90FB (Captain Seat)
After 2/29/00

NOTE: A - Includes Items 12-22.
B - Includes Items 1-7, 9, and 10.
C - Captain seats will use footboards for 18" wide chairs.
D - Includes Items 24-29.
E - Includes Items 11, 23, and 30.
F - Not Shown.

Footrest and Legrest Accessories

Heel Loops (1346)

Footplate Type	Heel Loop Single #	Heel Loop Pair #	Heel Loop with Ankle Strap - Right Single #	Heel Loop with Ankle Strap - Left Single #	Heel Loop with Ankle Strap Pair #	Attaching Hardware Pair #
Composite (1651) 14" W (16" Wide Tapered)	1028412	1035912	1035908	1035909	1035906	1035931
Composite (1651) 16" W (18" Wide Tapered)	1017621	1035917	1035919	1035920	1035918	1035931
Composite (1651) 18" W (20" Wide Tapered)	1017621	1035917	1035932	1035933	1035930	1035931
Standard Aluminum (1650) 14" Wide	1025234	1035905	1035908	1035909	1035906	1035907
Standard Aluminum (1650) 16-20" Wide	1017621	1035917	1035919	1035920	1035918	1035907
Deluxe Aluminum (1450) 16-20" Wide	1017621	1035917	1035919	1035920	1035918	1086112
X-Large Aluminum (1350) 14" Wide	1025234	1035905	1035908	1035909	1035906	1055241
X-Large Aluminum (1350) 16-20" Wide	1017621	1035917	1035919	1035920	1035918	1055241

Heel Loop Hardware

Part Number	Consists of:
1035931	(2) each - Screw, Pan Head (1/4-20 x 2-1/4"), (2) each - Spacer (1/4 x 11/32 x 1-3/4"), and (2) each - Locknut (1/4-20").

Footrest and Legrest Accessories

Heel Loop Hardware

Part Number	Consists of:
1055241	(2) each - Screw, Pan Head (1/4-20 x 2-1/4"), (2) each - Spacer (1/4 x 11/32 x 1-3/4"), and (2) each - Locknut (1/4-20").
1035907	(2) each - Screw, Phillips Head (1/4-20 x 2-1/2"), (2) each - Spacer (1/4 x 11/32 x 1-3/4"), and (2) each - Locknut (1/4-20").
1086112	(2) each - Screw, Phillips Head (1/4-20 x 2-1/2"), (2) each - Spacer (1/4 x 11/32 x 1-3/4"), and (2) each - Locknut (1/4-20").

Footrest and Legrest Accessories

Toe Loops (1345)

Footplate Type	Toe Loop w/o Hardware Single #	Toe Loop w/o Hardware Pair #	Attaching Hardware Part Number	Attaching Hardware Consists of
1651, 1650, 1450, 1350, Footplates	04572X025	1037087	1037089	(4) each Screw, PPH (#10-32 x 7/8"), (4) each Washer (1/4 x 3/4 x 3/32"), and (4) each Locknut (#10-32).

Miscellaneous Accessories

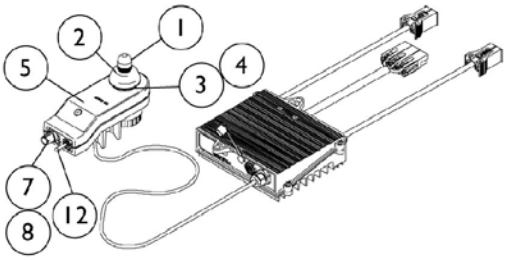
Part Number	Description
1026987	Impact Guard (8") (IMPACTG)
1034206	Non-Removable Device (pair) (1820)
1032003	"H" Heel Strap (9342) 14" Wide
1032002	"H" Heel Strap (9342) 16-20" Wide
1035902	Calf Strap (1337)
8881006725 See Note(s) A, B	Footrest Support Panel (1348) 14-16" Wide
8881006726 See Note(s) A, B	Footrest Support Panel (1348) 18" Wide
8881006727 See Note(s) A, B	Footrest Support Panel (1348) 20" Wide
8881035816 See Note(s) A, C	Legrest Support Panel (1348) 14-16" Wide
8881035817 See Note(s) C, A	Legrest Support Panel (1348) 18" Wide
8881035818 See Note(s) A, C	Legrest Support Panel (1348) 20" Wide

Footrest and Legrest Accessories

NOTE: A - Specify upholstery color when ordering. See page titled "Frame Finishes, Touch-Up Paints and Upholstery Colors."
B - For PW93 footrest
C - For P904A, PAS4A and PAL4A legrest

NOTE: These items are not shown

MKIV Joysticks
Excel, RII, RX, A, A+, Tchjoy

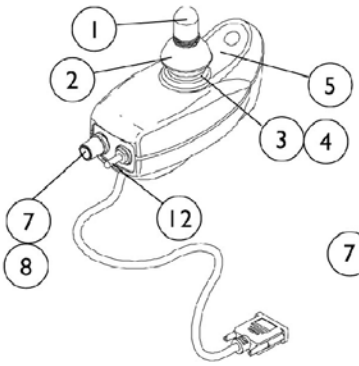


✳ ~~1080723~~NLA
RII Joystick/Controller

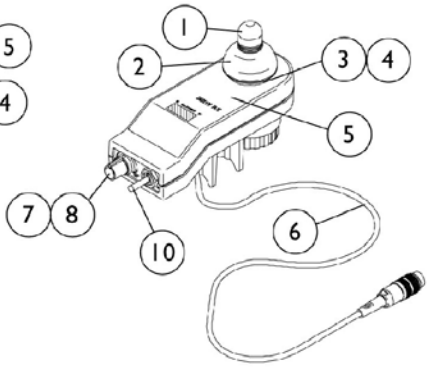
✳ For chairs made before 5/1/00, the following must be ordered:
RII Joystick part #1092610
RII Retro Controller part #1095269
Remote Programmer part #1093248

✪ ~~1080953~~NLA
EXCEL Joystick/L.P.Controller Before 5/1/00

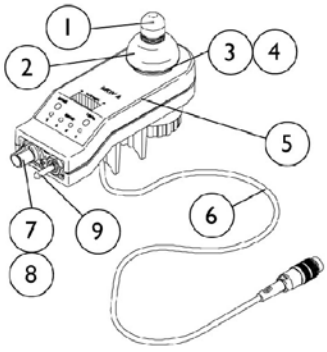
✪ For chairs made before 5/1/00, the following must be ordered:
RII Joystick part #1092610
RII L.P. Retro Controller part #1095270
Remote Programmer part #1093248



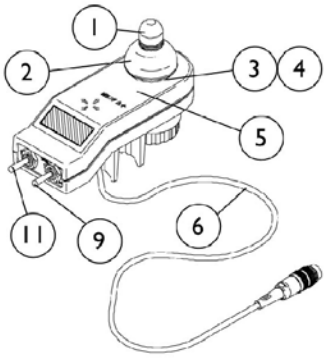
1092610
RII & Excel Joystick After 4/30/00



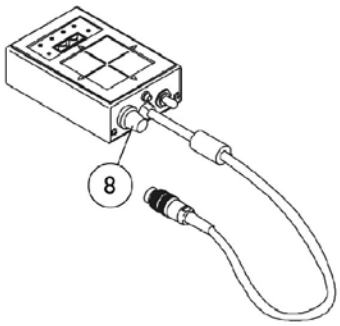
1038603
RX Joystick



1065944
A Joystick



1038608
A+ Joystick



1095289
TCHJOY
Touchpad "A" Joystick

MKIV Joysticks
Excel, RII, RX, A, A+, Tchjoy

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A,D	1080723-NLA	Joystick/Controller, MKIV RII	1	1
	B,D	1080953-NLA	Joystick/Controller, MKIV RII L.P	1	1
	C	1095269	Controller, MKIV RII Retro	1	1
	C	1095270	Controller, MKIV RII Retro L.P.	1	1
	C	1109091	Programmer, Remote	1	1
	C	See Chart	Item#s 1-12 MKIV Joysticks	1	1

NOTE: A - For RII model chairs made before 5/1/00, the following must be ordered, RII Joystick #1092610, RII Retro Controller #(1095269) and Remote Programmer part #(1109091)
B - For EXCEL model chairs made before 5/1/00, the following must be ordered, RII Joystick #1092610, RII L.P Retro Controller #1095270 and Remote Programmer #1109091.
C - Not Shown.
D - For joystick inductive and switch components, refer to chart under RII joystick assembly #1092610.

Item Number	Description	RII and Excel After 4/30/00	RX	A	A+	TCHJOY
See Pictorial	Joystick Assembly	1092610	1038603-NLA	1065944	1038608	1095289
1	Knob, Joystick	1040217	1040217	1040217	1040217	N/A
2	Skirt, Joystick	1040218	1040218	1040218	1040218	N/A
3	Inductive, Joystick	1036764 See Note(s) B	1036764 See Note(s) C	1036764 See Note(s) C	1036764 See Note(s) B	N/A
3	Inductive, Joystick	N/A	1104397 See Note(s) D	1104397 See Note(s) D	N/A	N/A
4	Boot, Joystick	50000X364	50000X364	50000X364	50000X364	N/A
5	Overlay, Joystick Decal	1049692-NLA See Note(s) A	1038642	1040190	1036776	N/A
6	Cable Assembly	N/A See Note(s) A	1036750 See Note(s) C	1036750 See Note(s) C	1036750 See Note(s) B	N/A
6	Cable Assembly	N/A	1104205 See Note(s) D	1104205 See Note(s) D	N/A	N/A
7	Potentiometer, Speed	1040225 See Note(s) B	1040225 See Note(s) C	1040225 See Note(s) C	N/A	N/A
7	Potentiometer, Speed	N/A	1115518 See Note(s) D	1115518 See Note(s) D	N/A	N/A
8	Knob, Potentiometer	1025516	1025516	1025516	N/A	1025516
9	Switch, On/Off Momentary	N/A	N/A	1040185 See Note(s) C	1040185 See Note(s) B	N/A
9	Switch, On/Off Momentary	N/A	N/A	1115523 See Note(s) D	N/A	N/A

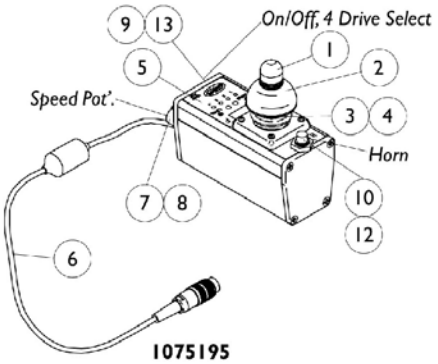
MKIV Joysticks
Excel, RII, RX, A, A+, Tchjoy

Item Number	Description	RII and Excel After 4/30/00	RX	A	A+	TCHJOY
10	Switch, Off/ 1-2	N/A	1038627 See Note(s) C	N/A	N/A	N/A
10	Switch, Off/ 1-2	N/A	1115521 See Note(s) D	N/A	N/A	N/A
11	Switch, Program	N/A	N/A	N/A	1040186 See Note(s) B	N/A
12	Switch, Toggle SPDT	1010042 See Note(s) B	N/A	N/A	N/A	N/A

NOTE: A - Cable assembly and joystick overlay decal for RII joystick before 10/01/02 and after 9/30/02 are not available.
B - Item requires soldering.
C - Before 10/01/02 item requires soldering.
D - After 9/30/02 item has a non-solder connector.

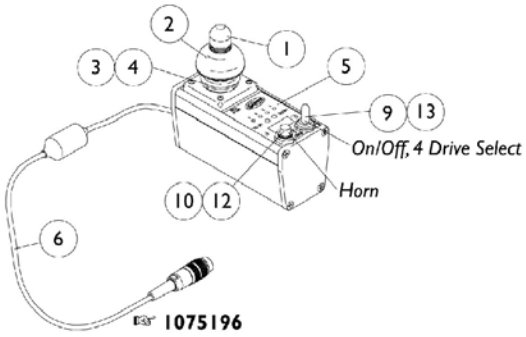
MKIV Joysticks
PSF and PSR

NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configurated part.

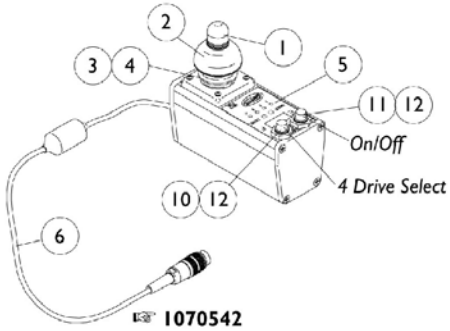


1075195
PSF Joystick

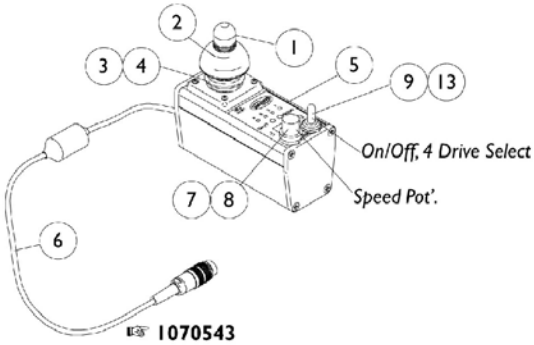
☞ ***STANDARD:*** *This PSR joystick includes a toggle on/off combined with a drive select and a push button horn. No speed selector.*
PBOD: *This PSR joystick includes push button on/off with a push button drive select. This gives you access to the four drives, but no horn and no speed select.*
RHSS: *This PSR joystick replaces the horn with a speed selector. This allows you to deviate from having a horn to having a speed select dial, plus the drive selector to the four drives.*
TOHSS: *This PSR joystick includes a toggle on/off with horn and a speed select dial. You have access to only one drive.*
OL: *On/Off positioned on left side of the PSR joystick.*
OR: *On/Off positioned on right side of the PSR joystick.*



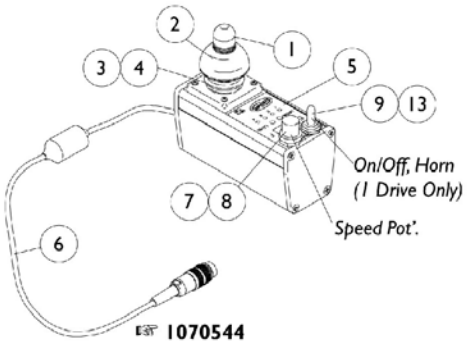
☞ **1075196**
PSR Joystick
ON CHAIR: STANDARD



☞ **1070542**
PSR Joystick without Horn
ON CHAIR: PBOD/OL



☞ **1070543**
PSR Joystick without Horn
ON CHAIR: RHSS/OL



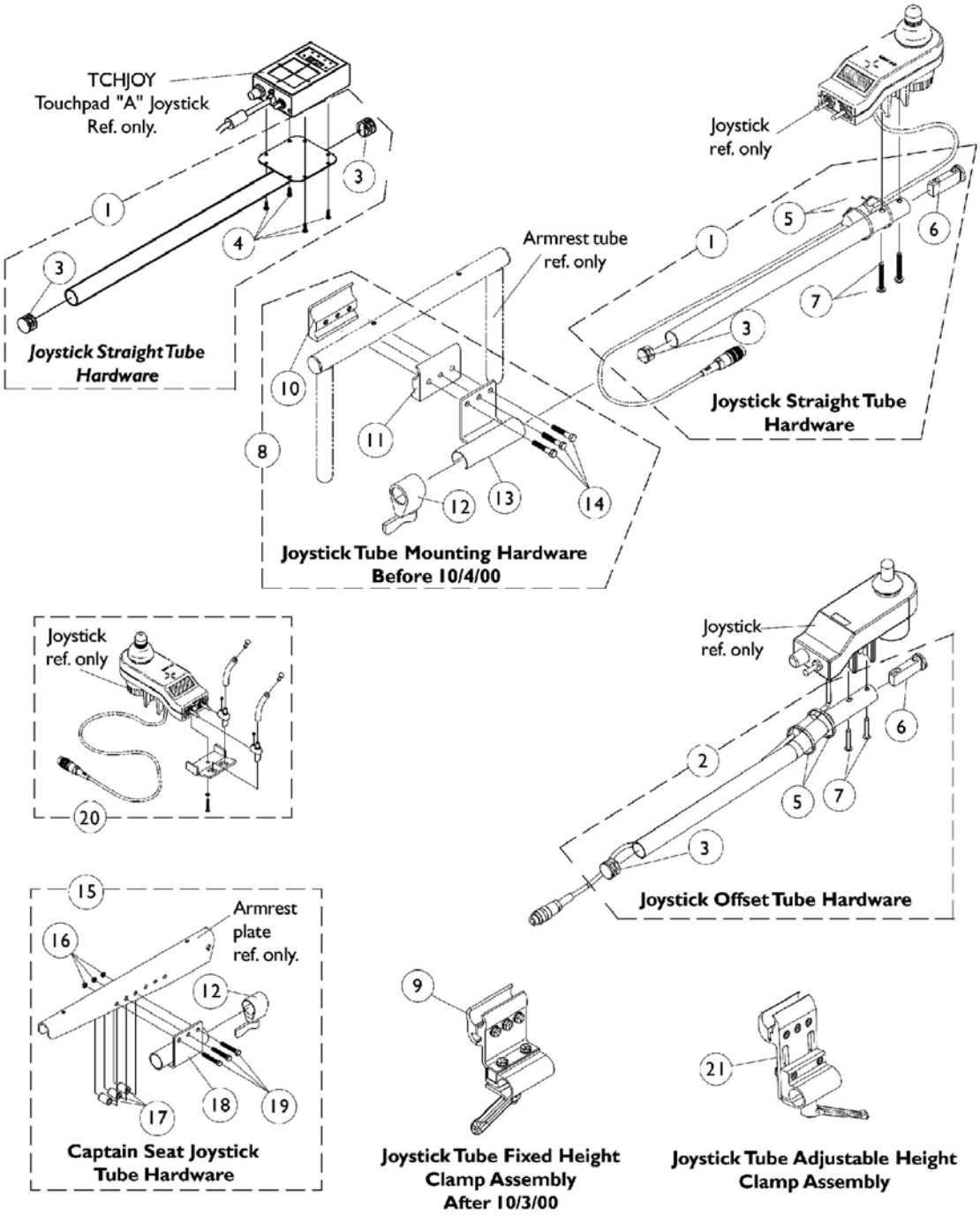
☞ **1070544**
PSR Joystick
ON CHAIR:TOHSS/OL

MKIV Joysticks
PSF and PSR

NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configurated part.

Item Number	Description	PS Before 12/1/97	PSF After 11/30/97	PSR After 11/30/97
See Pictorial	Joystick Assembly	N/A	N/A	1075196
See Pictorial	Joystick Assembly	1058468-NLA	8881075195	8881075196
See Pictorial	Joystick Assembly	N/A	N/A	1070542
See Pictorial	Joystick Assembly	N/A	N/A	1070543
See Pictorial	Joystick Assembly	N/A	N/A	1070544
1	Knob, Joystick	1040217	1040217	1040217
2	Skirt, Joystick	1040218	1040218	1040218
3	Inductive, Joystick	1036764	1036764	1036764
4	Boot, Joystick	50000X364	50000X364	50000X364
5	Overlay, Joystick Decal	1058460-NLA	1075034	1079925
6	Cable Assembly	1036750	1036750	1036750
7	Potentiometer Speed	N/A	1040225	1040225
8	Knob Potentiometer	N/A	1025516	1025516
9	Switch, On/Off Momentary	1040185	1040185	1040185
10	Switch, Push Button SPST Momentary	N/A	1010047	1010047
11	Switch, Push Button SPST	N/A	N/A	1010048
12	Boot, Switch	N/A	1010049	1010049
13	Boot, Switch	1058464	1058464	1058464

MKIV Joystick Mounting Hardware and Joystick Accessories

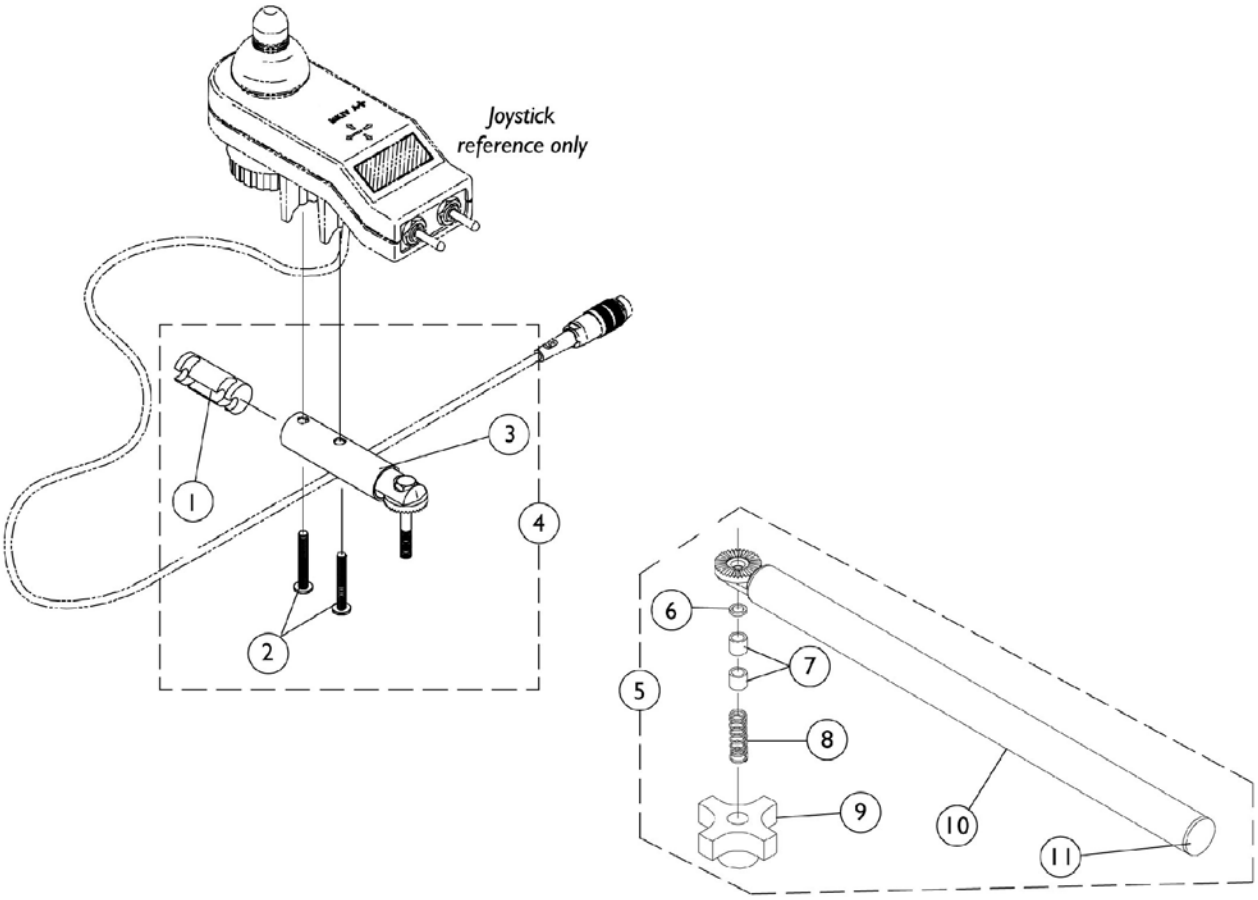


MKIV Joystick Mounting Hardware and Joystick Accessories

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	B,N	1092604	Kit, Straight Joystick Tube with Hardware	1	1
1	C,D,K	1043568	Kit, Straight Joystick Tube with Hardware	1	1
2	D,E,L,L1	1093069	Kit, 1/2" Offset Joystick Tube with Hardware	1	1
3		1027095	Plug Button, Black (7/8")	1	1
4		1052041	Screw, Phillips Pan Head (#4-40 x 3/8")	1	1
5	F	1095502	Package, Cable Ties (11-1/2" Long)	10	2
6		1093063	Spacer, Joystick Tube	1	1
7		1025714	Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	1
8	C,G,J	1049591	Hardware, Joystick Tube Mounting	1	1
9	E,L,L1	1093071	Clamp, Fixed Height Joystick Tube	1	1
10		1027267	Half Clamp, Threaded Holes	1	1
11		1027266	Half Clamp, Non-Threaded Holes	1	1
12		1027274	Lock, Adjustment (Black)	1	1
13		1049582	Bracket, Joystick Mounting	1	1
14		16690X004	Screw, Hex Head (1/4-20 x 1-1/8")	1	1
15	H	1105050	Kit, Joystick Tube Mounting Hardware - Captain/ Van Seat	1	1
16		1025195	Locknut (1/4-20)	1	1
17		1101524	Spacer (1/4 x 7/16 x 5/8")	1	3
18		1105049	Clamp Assembly, Captain/Van Seat	1	1
19		1057955	Screw, Hex Head (1/4-20 x 1-1/4")	1	3
20		1055736	Toggle Switch Extension Kit	1	1
21		1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
	A	1006270	Joystick Extension - "T" Style (1560) (4" Wide x 5-1/2" Long)	1	1
	A	1006271	Joystick Extension - Straight Style (1561) (1/2" Wide x 5" Long)	1	1

NOTE:
A - Not Shown.
B - Includes items 3 and 4.
C - Before 10/4/00.
D - Includes items 3, 5, 6 and 7.
E - After 10/3/00. MKIV RII, RX, A, A+ PSF/PSR.
F - Package of 10.
G - Includes items 10-14.
H - Includes items 16-19.
J - PS, TCHJOY and (RII, RX, A, A+, PSF/PSR.
K - MKIV RII, RX, A, A+ PSF/PSR.
L - The joystick straight tube changed to an offset joystick tube on 10/4/00. The joystick tube mounting hardware also changed to a new fixed height clamp assembly to allow an individual to use an
L1 - adjustment lever to securely hold the joystick tube in place. The fixed height joystick tube clamp can be used as a direct replacement in the field for the joystick tube mounting hardware part number 1049591 manufactured for chairs before 10/4/00.
N - Due to product improvement, the joystick mounting bracket with a separate adjustment lock was replaced with the clamp assembly shown as of 2/20/03 and is backward compatible.

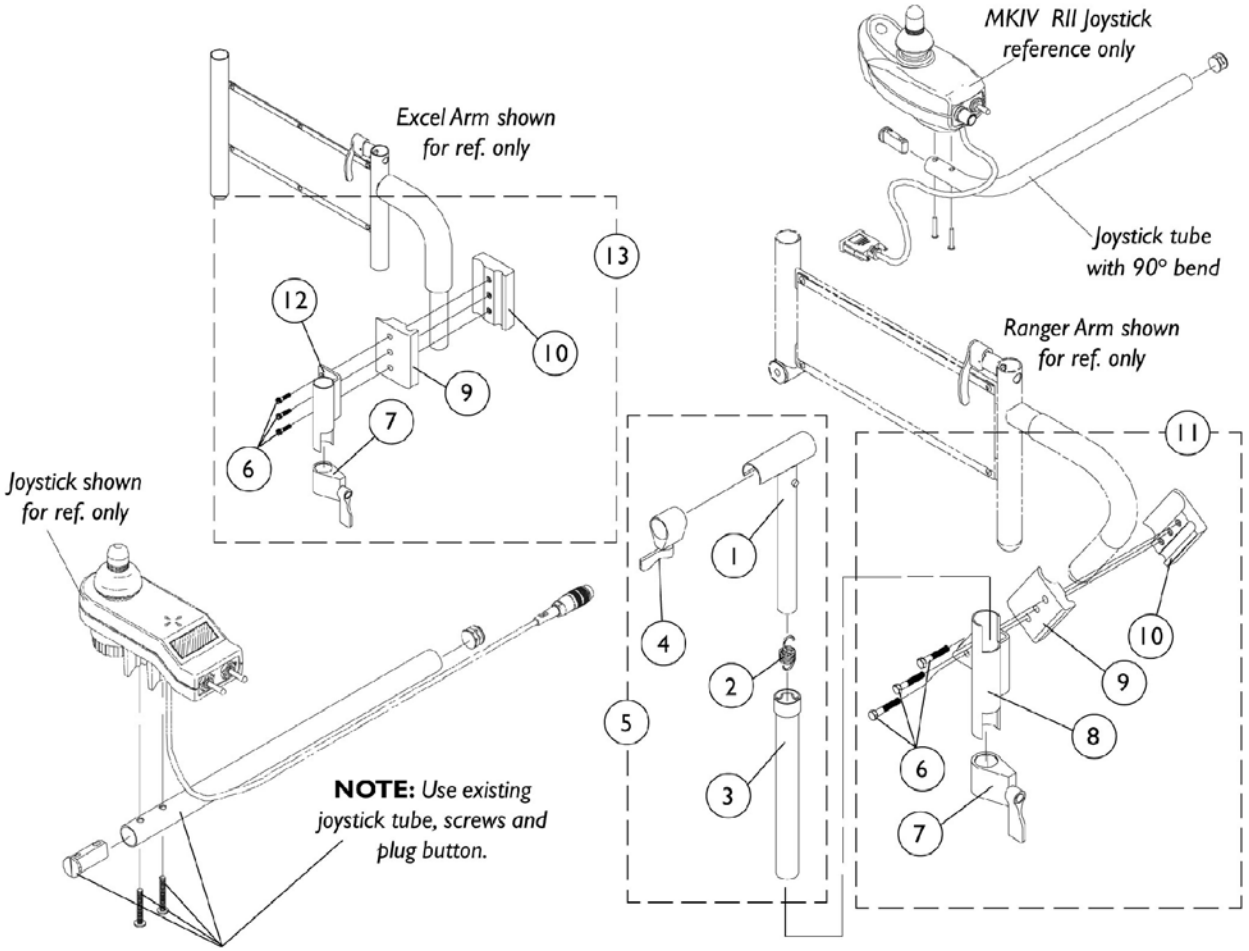
MKIV Swivel Joystick Hardware



MKIV Swivel Joystick Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1093063	Spacer, Joystick Tube	1	1
2		7930327	Screw, Phillips Pan Head (#10-32 x 1-1/8")	25	1
3		1049962	Swivel Joystick Bracket, MKIV	1	1
4		1049963	Swivel Joystick Bracket with Hardware	1	1
5		1035986	Swivel Joystick Tube with Hardware	1	1
6		1020551	Washer, Flat (1/4 x 3/8 x 1/16")	1	1
7		1005844	Bushing	1	2
8		1002511	Spring, Hitch Bracket	1	1
9		1023670	Knob, Clamping	1	1
10		1035990	Tube, Swivel Joystick	1	1
11		1027095	Plug Button, Black (7/8")	1	1

MKIV Mid-Line Swing Bracket Assembly

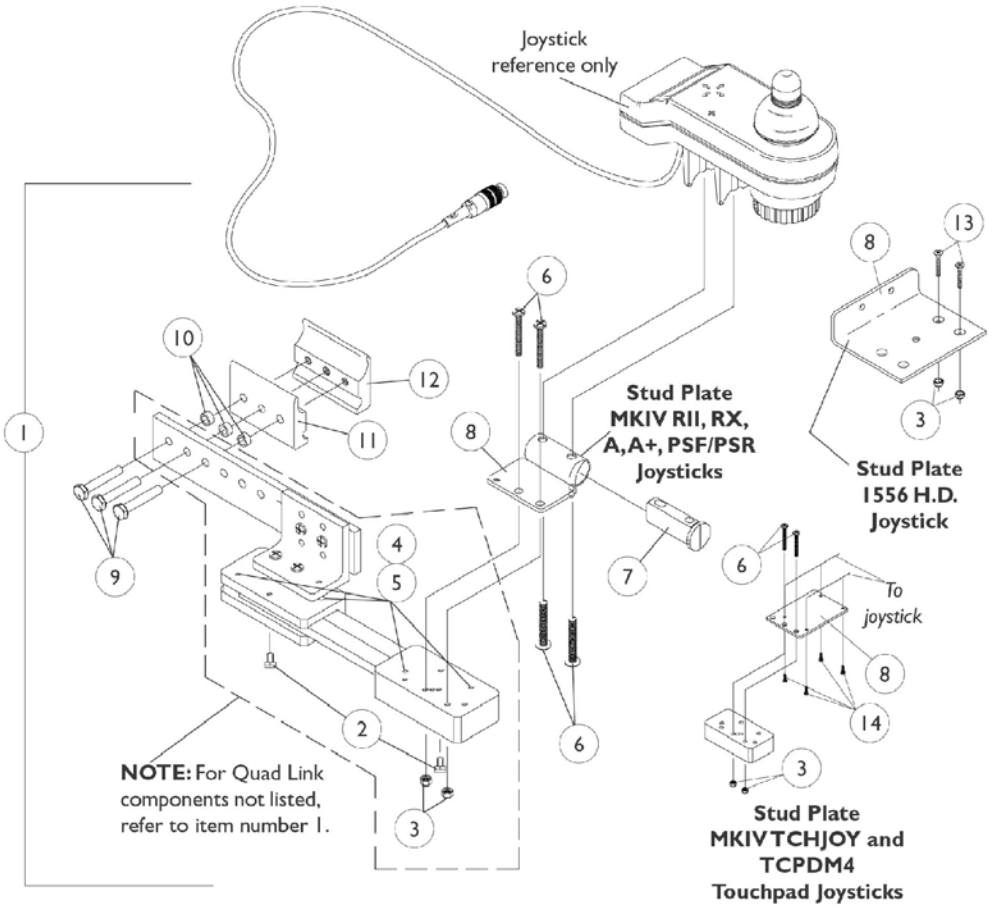


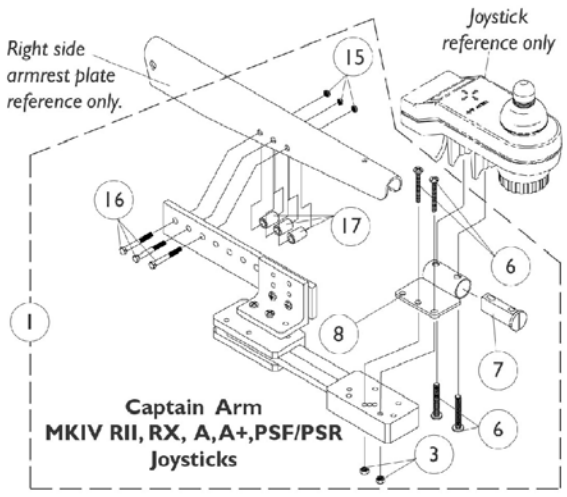
MKIV Mid-Line Swing Bracket Assembly

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1035528	Adjustment Tube, (Inside) Mid-Line	1	1
2		1016778	Spring, Extension	1	1
3		1035860	Adjustment Tube, (Outside) Mid-Line	1	1
4		1027274	Lock, Adjustment (Black)	1	1
5	A	1035852	Swing Bracket Assembly, Mid-Line	1	1
6		7930349	Screw, Hex Head (1/4-20 x 1-1/8")	25	1
7		1027274	Lock, Adjustment (Black)	1	1
8	B	1071879	Bracket, Joystick Mounting	1	1
9		1027266	Half Clamp, Non-Threaded Holes	1	1
10		1027267	Half Clamp, Threaded Holes	1	1
11	B,C	1071880	Hardware, Attaching Mid-Line	1	1
12		1049582	Bracket, Joystick Mounting	1	1
13	D	1049591	Hardware, Joystick Tube Mounting	1	1

NOTE: A - Includes Items 1-4.
B - Left side joystick mounting bracket or hardware must be ordered as a special.
C - Includes Items 6-10.
D - Includes Items 6, 7, 9, 10, and 12.

Quad Link Assembly
Before 4/07/06


Joystick reference only
Stud Plate MKIV RII, RX, A,A+, PSF/PSR Joysticks
Stud Plate 1556 H.D. Joystick
To joystick
NOTE: For Quad Link components not listed, refer to item number 1.
Stud Plate MKIV TCHJOY and TCPDM4 Touchpad Joysticks



Quad Link Assembly
Before 4/07/06

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1052402	Kit, Quad Link Assembly - Right	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube	1	1
8			Stud Plate, Quad Link	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			Half Clamp, Threaded Holes	1	1
1	A	1115372	Kit, Quad Link Assembly - Left	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube	1	1
8			Stud Plate, Quad Link	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			Half Clamp, Threaded Holes	1	1
1	B,E	1034703-NLA	Kit, Quad Link Assembly - Right	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
8			Stud Plate, Quad Link For 1556 Heavy Duty Joystick	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			Half Clamp, Threaded Holes	1	1
13			Screw, Phillips Flat Head Countersunk (#10-32 x 1-1/8")	1	2
1	B	1114866	Kit, Quad Link Assembly - Left	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
8			Stud Plate, Quad Link For 1556 Heavy Duty Joystick	1	1

Quad Link Assembly
Before 4/07/06

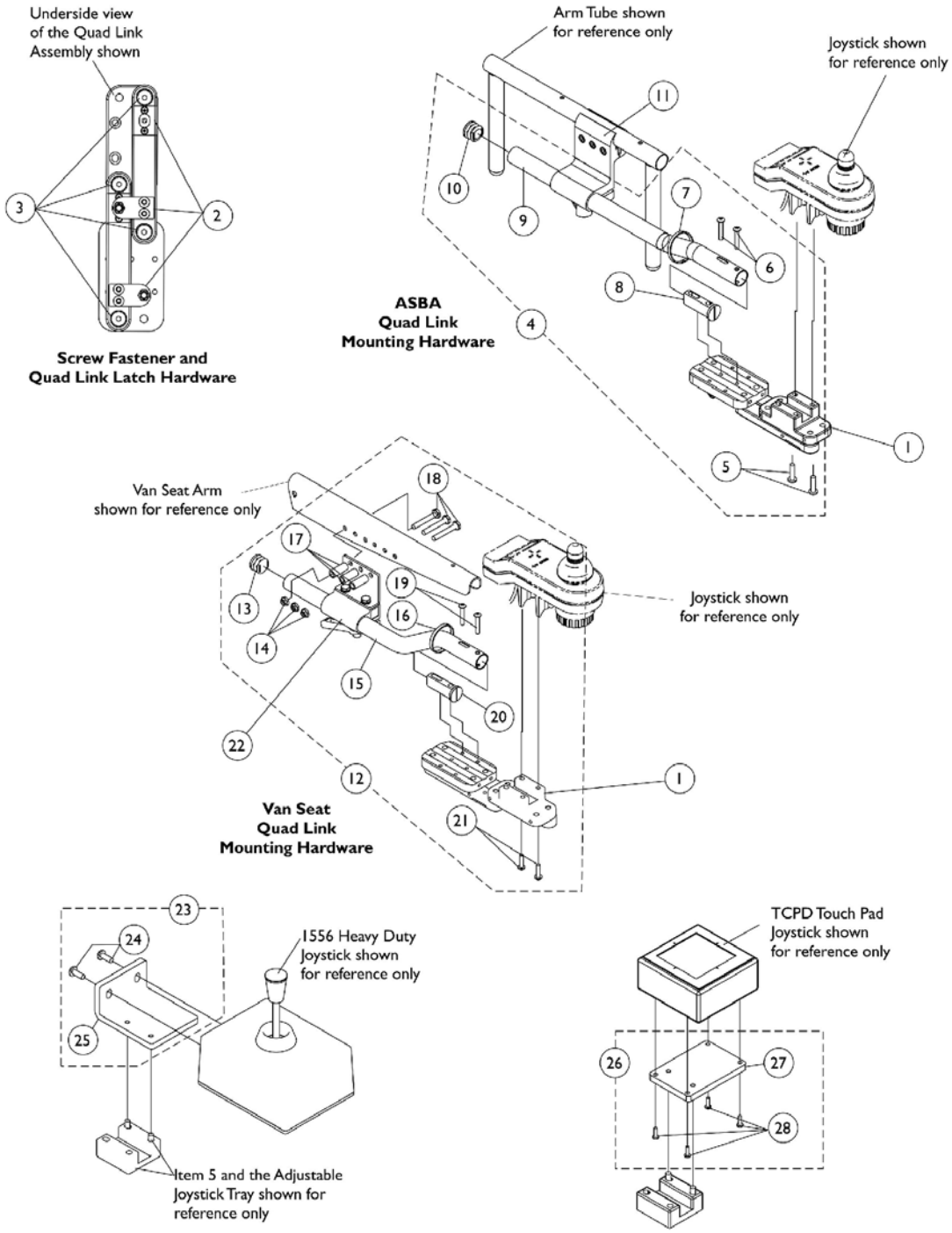
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			Half Clamp, Threaded Holes	1	1
13			Screw, Phillips Flat Head Countersunk (#10-32 x 1-1/8")	1	2
1	C	1102027	Kit, Quad Link Assembly - Right For TCHJOY/TCPDM4 Touchpad	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
8			Stud Plate, Quad Link MKIV TCHJOY/TCPDM4	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			Half Clamp, Threaded Holes	1	1
14			Screw, Phillips Flat Head Countersunk (#4-40 x 3/8")	1	4
1	D	1074153	Kit, Quad Link Assembly - Right For Van Seats	1	1
2			Ball Plunger with Lock Washer Assembly	2	1
3			Locknut (#10-32)	1	2
4			Screw, Socket Head (#10-32 x 1/2")	1	4
5			Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube	1	1
8			Stud Plate, Quad Link	1	1
15			Locknut (1/4-20)	1	3
16			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
17			Spacer (1/4 x 7/16 x 5/8")	1	3
2		1114863	Ball Plunger with Lock Washer Assembly	2	1

NOTE:
A - Includes the Quad Link, items 2-12 and used with MKIV RII, RX, A, A+,PSF/PSR joysticks
B - Includes the Quad Link, items 2-5, 8-13 and used with a 1556 Heavy Duty joystick
C - Includes the Quad Link, items 2-6, 8-12, 14 and used with MKIV TCHJOY/TCPDM4 joysticks. Left side mounted Quad Link must be ordered as a special
D - Includes the Quad Link, items 2-8, 15-17 and used with MKIV RII, RX, A, A+, PSF/PSR joysticks attached to a van seat. Left side mounted Quad Link must be ordered as a special
E - Quad Link Assembly is no longer available. Please see Quad Link Assembly (After 4/06/06) category and use new Quad LInk design as a replacement.

Quad Link Assembly (QL)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:
a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
b) Van Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)
NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad is used.


Underside view of the Quad Link Assembly shown
Screw Fastener and Quad Link Latch Hardware
Arm Tube shown for reference only
Joystick shown for reference only
ASBA Quad Link Mounting Hardware
Van Seat Arm shown for reference only
Joystick shown for reference only
Van Seat Quad Link Mounting Hardware
1556 Heavy Duty Joystick shown for reference only
Item 5 and the Adjustable Joystick Tray shown for reference only
TCPD Touch Pad Joystick shown for reference only

Quad Link Assembly (QL)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:
a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
b) Van Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)
NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad is used.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1140898	Quad Link (QL) and Instruction Sheet - Right	1	1
1		1140899	Quad Link (QL) and Instruction Sheet - Left	1	1
2	A	1140425	Kit, Quad Link Latch Hardware	1	1
3	B	1140424	Kit, Quad Link Screw Fastener Hardware	1	1
4	C,C1	1142937	Kit, ASBA/ADJASBA Quad Link Mounting Hardware	1	1
5			Screw, Phillips Pan Head w/ Patch (10-32 x 3/4")	1	2
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
7			Cable Tie (11-1/2" Long)	1	1
8			Spacer, Joystick Tube	1	1
9			Tube, Joystick 2" Offest	1	1
10			Plug Button, Black (7/8")	1	1
5		1105414	Screw, Phillips Pan Head w/ Patch (10-32 x 3/4")	1	2
11		1093071	Clamp, Fixed Height Joystick Tube	1	1
12	C1,G,H,H1	1143041	Kit, Quad Link Mounting Hardware - Van Seat	1	1
13			Plug Button, Black (7/8")	1	1
14			Locknut (1/4-20)	1	3
15			Tube, Joystick 2" Offest	1	1
16			Cable Tie (11-1/2" Long)	1	1
17			Spacer (1/4 x 7/16 x 5/8")	1	3
18			Screw, Hex Head (1/4-20 x 1-1/4")	1	3
19			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
20			Spacer, Joystick Tube	1	1
21			Screw, Phillips Pan Head w/ Patch (10-32 x 3/4")	1	2
22		1139681	Clamp, Van Seat Arm Joystick Tube	1	1
23	D	1139925-NLA	Kit, 1556 Heavy Duty Joystick To Quad Link Mounting Hardware	1	1
24			Screw, Phillips Pan Head (#10-32 x 1/2")	1	2
25			Plate, 1556 HD Joystick Quad Link	1	1
26	E	1139683	Kit, TCPD Touch Pad To Quad Link Mounting Hardware	1	1
27			Plate, TCPD Touch Pad Quad Link	1	1
28			Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
29		1139682	Kit, MPJ Joystick To Quad Link Mounting Hardware	1	1
30			T-Nut (#10-32)	1	2
	F	1134844	Instruction Sheet, Quad Link	1	1

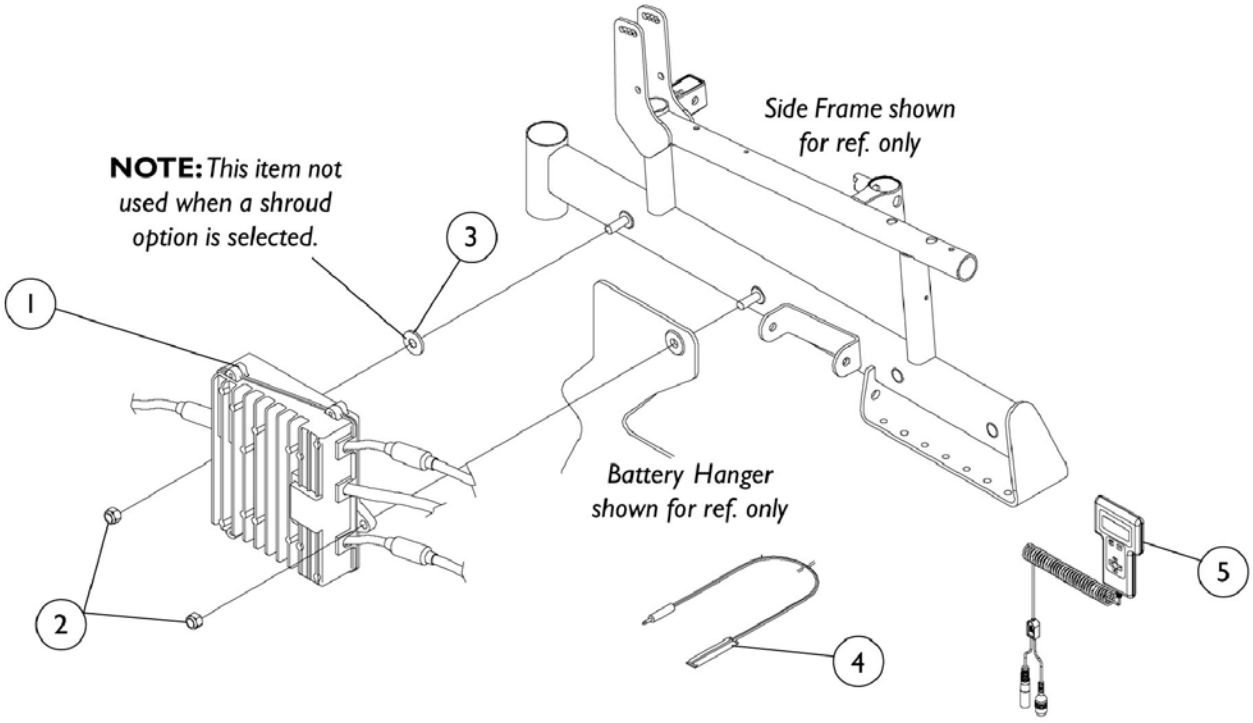
Quad Link Assembly (QL)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:
a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
b) Van Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)
NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad is used.

NOTE:
A - Latch Kit includes 4 ea. Button Head Cap Screws (10-32 x 3/8"), 2 ea. Latch Spring Assembly, 4 ea. Phillips Flat C'Sunk Head Screws, 2 ea. Spring Catch Plates, 2 ea. Socket Head Set Screws (10-32 x 3/8")
B - Screw Fastener Kit includes 4 ea. Socket Head Shoulder Screws (3/8 x 3/8"), 2 ea. Socket Head Cap Screws (1/4-20 x 3/8"), 2 ea. Socket Head Set Screws (1/4-20 x 1/2"), 4 ea. Socket Head Set Screws (10-32 x 1/8")
C - Includes items 5-10. The Quad Link Mounting Hardware accommodates MKIV RII, and PSF/PSR joysticks.
C1 - When ordering the Quad Link for the first time, Additional hardware is required for 1556 Heavy Duty and TCPD Touch Pad joysticks. See pictorial for reference.
D - Includes items 24 and 25
E - Includes items 27 and 28
F - Not Shown
G - Includes items 13-21. The Quad Link Mounting Hardware accommodates MKIV RII, and PSF/PSR joysticks.
H - If Quad Link is to be mounted on chairs w/ van seats built Before 4/07/06, then the Armrest Attach. Hdwr. (1074120) must be ordered as well.
H1 - The new armrest plates have 3 additional holes drilled so that the quad link can be properly mounted.

MKIV Controller, Programmer and Attaching Hardware



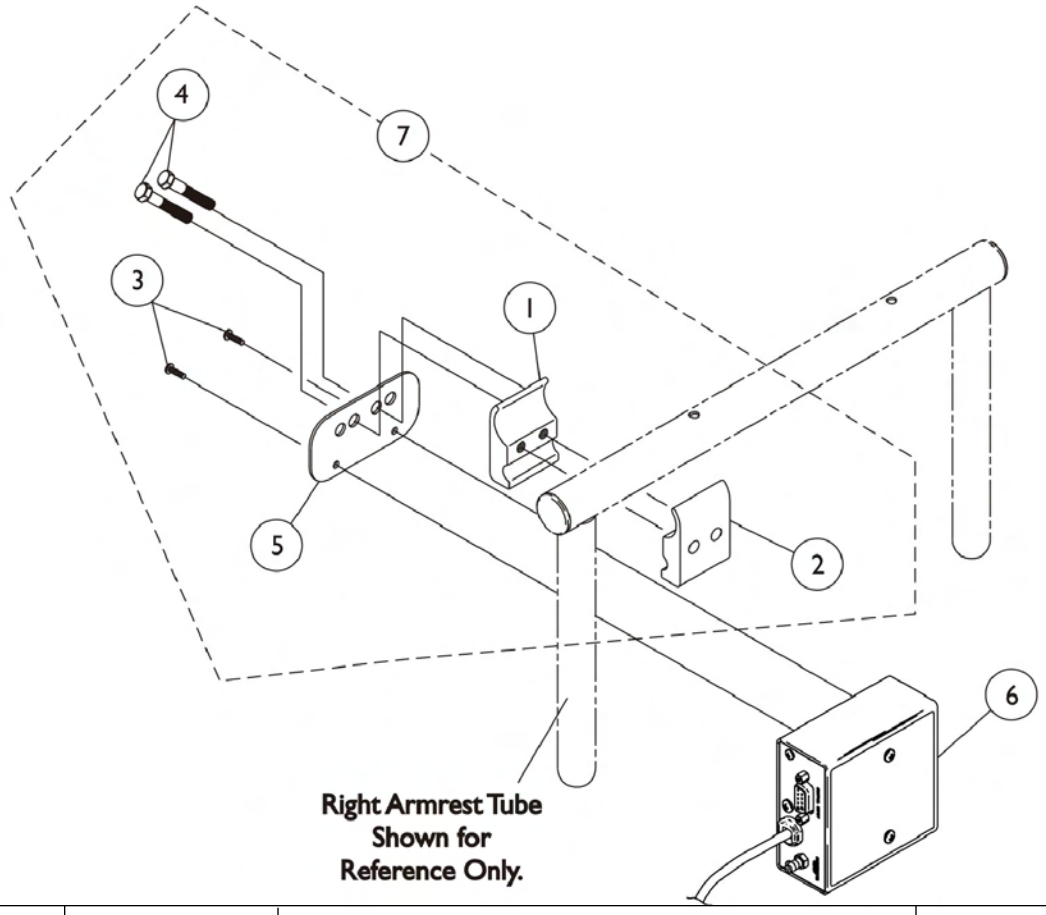
MKIV Controller, Programmer and Attaching Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	H	1105707	Controller, MKIV Quad Pulse	1	1
1	A,I	1095270	Controller, MKIV RII Retro L.P.	1	1
1	B,J	1095269	Controller, MKIV RII Retro	1	1
2		1026158	Locknut (5/16-18)	1	2
3		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
4		1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
4	K	1123276	Kit, Switch, Black Egg Reset, with Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
5		1109091	Programmer, Remote	1	1
	D	1064404-NLA	Virtual Service Modem Kit	1	1
	D	1091631-NLA	Virtual Service Software Kit	1	1
	D	1046117-NLA	Printer and Interface	1	1
	D,F	1091980-NLA	Disk, 3.5 H.D. Floppy with V.S. Software	1	1
	D,E,F	1095204	Cable, Virtual Service Charger/Modem	1	1
	D,F	1091637-NLA	Adaptor, Null Modem	1	1
	D,F	1091636-NLA	Service Manual - V.S. Software Kit	1	1
	D,G	1026572-NLA	Paper, Printer	1	1
	D,G	1027280-NLA	Harness, Printer Wiring	1	1

NOTE:
A - RII retro LP. controller after 4/30/00 and new RII joystick #1092610 serve as direct replacements forJoystick/Controller #1080953.
B - RII retro controller after 4/30/00 and new RII joystick #1092610 serve as direct replacements for Joystick/Controller #1080723.
D - Not Shown.
E - May be ordered as an individual part or is included in the "Virtual Service Modem Kit."
F - May be ordered as an individual part or is included in the "Virtual Service Software Kit."
G - May be ordered as an individual part or is included in "Printer and Interface."
H - MKIV Quad Pulse.
I - MKIV RII L.P. Retro (After 4/30/00) (EXCEL).
J - MKIV RII Retro (After 4/30/00) (RII and R2jr.).
K - Not Shown. After 5/23/04 the Egg Reset Switch became available as a service part and can be used as a direct replacement for the tape reset switch part # 1020818.

MKIV Sip-N-Puff/Digital Interface

NOTE: SNPM4 On Chair / 1038635 Off Chair

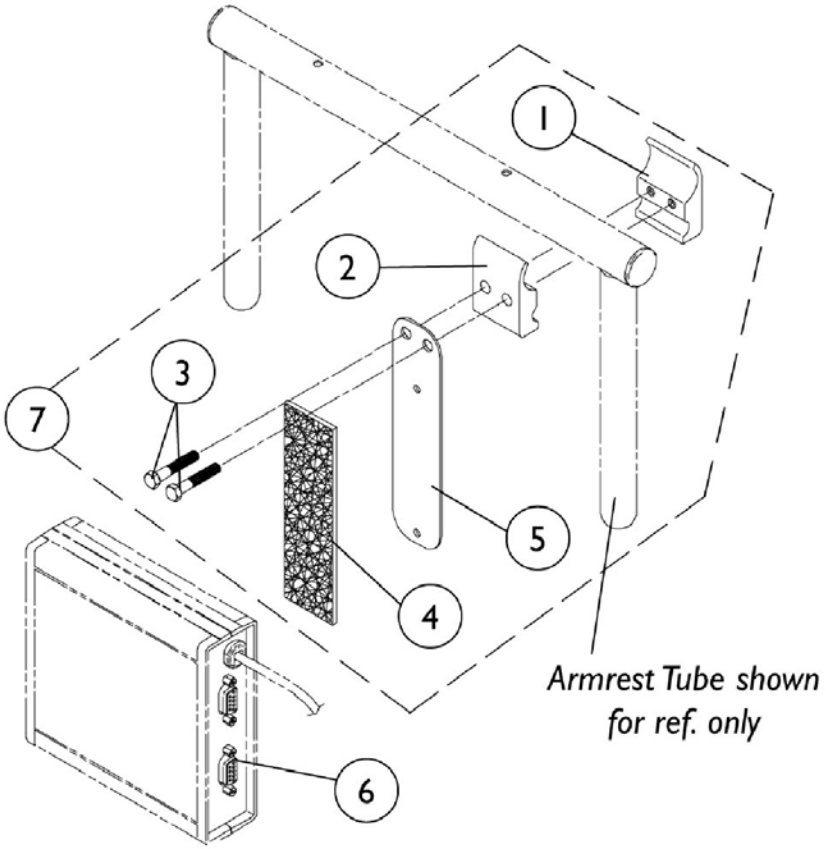


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
6		1038635	Sip-N-Puff with Digital Interface	1	1
7	A,B	1049593	Kit, SNP/DI, MK5 SAC, 4WSB, S4WSB, GTAM, AUX12M6, AUX34M6 Mtg. Hdwr.	1	1
1			Half Clamp, Threaded Holes	1	1
2			Half Clamp, Non-Threaded Holes	1	1
3			Screw, Hex Head (1/4-20 x 1-1/8")	1	2
4			Screw, Phillips Pan Head (#4-40 x 3/8")	1	2
5			Plate, Mounting	1	1

NOTE: A - Includes items 1-5
B - As of 5/22/07 the Mounting Plate holes and the orientation of the Hardware was revised to attach the electronics closer to the chair. The Mounting Hardware Kit is backward compatible.

COM12 and COM34

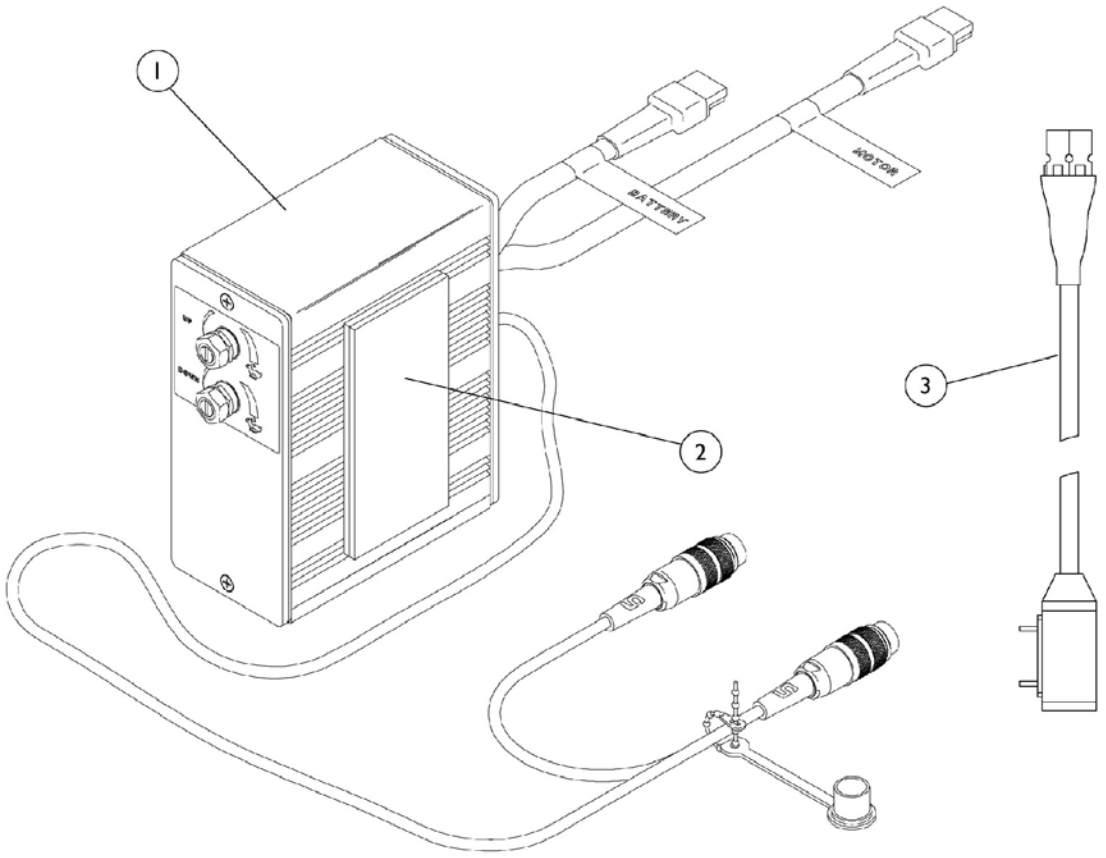
NOTE: COM12 and COM34 On Chair / 1038639 and 1086241 Off Chair



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
6		1038639	Communication Module, COM12/AUX12	1	1
6		1086241	Communication Module, COM34/AUX34	1	1
7	A	1049592	Kit, COM12/AUX12 and COM34/AUX34 Mounting Hardware	1	1
1			Half Clamp, Threaded Holes	1	1
2			Half Clamp, Non-Threaded Holes	1	1
3			Screw, Hex Head (1/4-20 x 1-1/8")	1	2
4			Fastener, Dual Lock Hook and Loop Adhesive (2" W x 12" L)	1	1
5			Mounting Plate, COM12/AUX12 and COM34/AUX34	1	1

NOTE: A - Includes items 1-5. Item 4 that is packaged with the kit will only be a 4" long "loop" fastener.

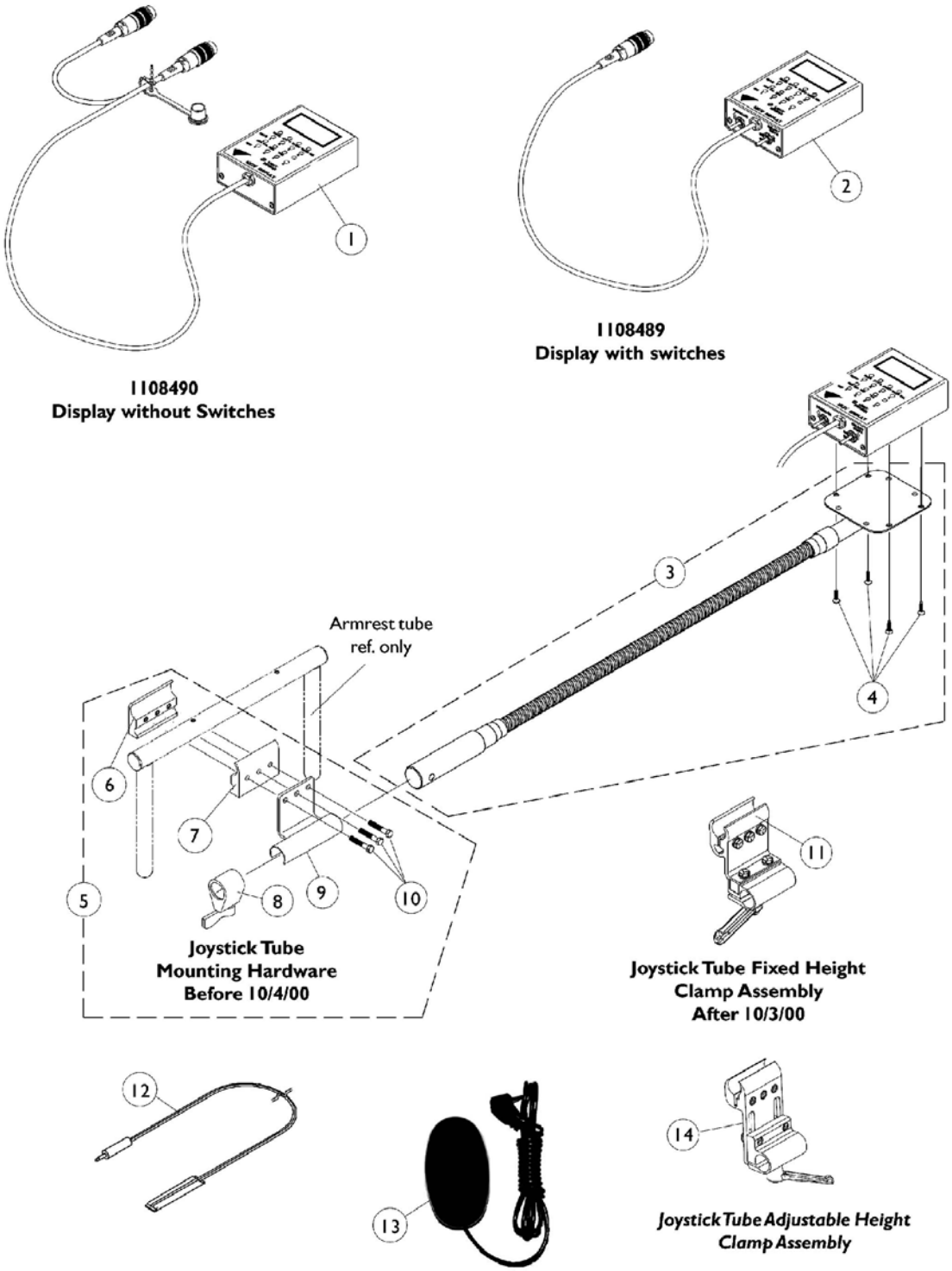
MKIV Recliner Control and Recliner Cable



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1054376	Control, Recliner	1	1
2		1095501	Fastener, Dual Lock Hook and Loop Adhesive (2" W x 12" L)	1	1
3		1098905	Cable Assembly, 24 Volt, Anderson/P.T.O.	1	1
	A	1005151	Cable, Recliner	1	1

NOTE: A - Not Shown.

MKIV Displays



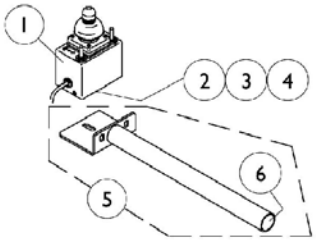
MKIV Displays

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1108490	Display without Switches	1	1
2		1108489	Display with Switches	1	1
3	A	1049594	Flex Tube with Screws	1	1
4		7930339	Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
5	B	1049591	Hardware, Joystick Tube Mounting	1	1
6		1027267	Half Clamp, Threaded Holes	1	1
7		1027266	Half Clamp, Non-Threaded Holes	1	1
8		1027274	Lock, Adjustment (Black)	1	1
9		1049582	Bracket, Joystick Mounting	1	1
10		16690X004	Screw, Hex Head (1/4-20 x 1-1/8")	1	1
11	C	1093071	Clamp, Fixed Height Joystick Tube	1	1
12	D	1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
13	E	1123276	Kit, Switch, Black Egg Reset, with Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
14		1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1

NOTE: A - Includes the Flex Tube and item 4
B - Before 10/4/00 and includes items 6-10
C - After 10/3/00 and can be used as a direct replacement for the Joystick Tube Mounting Hardware part number 1049591 in the field
D - Before 5/24/04
E - After 5/23/04 the Egg Reset Switch replaced the Red Flex Ribbon (Tape) Reset Switch

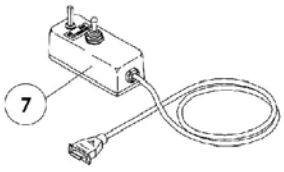
MKIV Joystick Options

REMOTE JOYSTICK



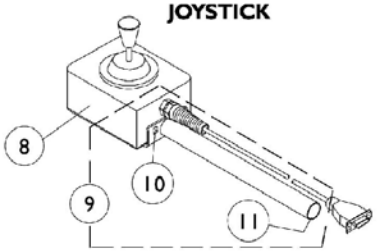
ON CHAIR: 1555M4
OFF CHAIR: ✪1038634
Used with display w/o switches
1108490

ATTENDANT CONTROL JOYSTICK



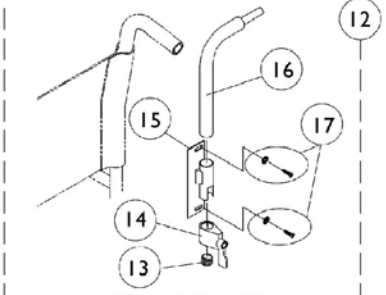
ON CHAIR: 1552M4
OFF CHAIR:✪1025590

HEAVY DUTY JOYSTICK



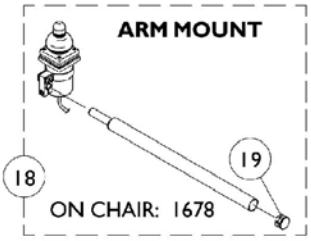
ON CHAIR: 1556M4
OFF CHAIR: ✪1041544
Used with display w/ switches
1108489

REAR CANE MOUNT



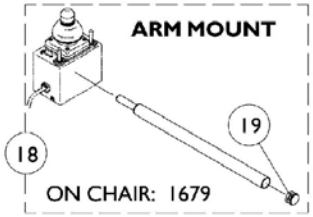
ON CHAIR: 1673

ARM MOUNT



ON CHAIR: 1678

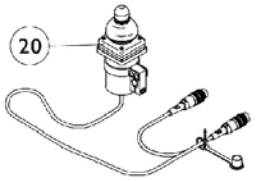
ARM MOUNT



ON CHAIR: 1679

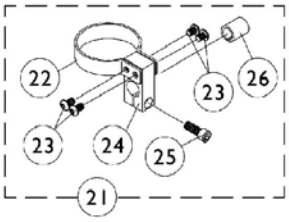
NOTE: Arm mounting tube shown above and additional arm mounting hardware are shipped when the On-Chair model number 1678 or 1679 is ordered.

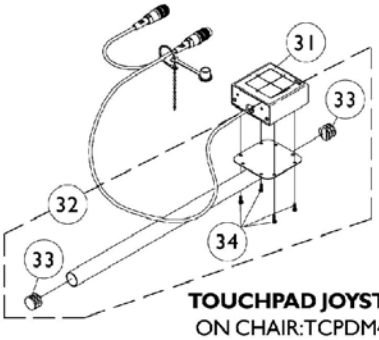
DUAL/COMPACT JOYSTICK W/ MTG. HARDWARE



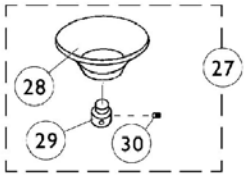
ON CHAIR: 1812M4/1558M4
OFF CHAIR:✪1038638

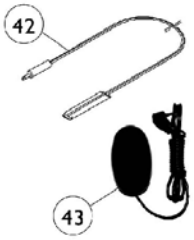
DUAL/COMPACT JOYSTICK MOUNTING HARDWARE

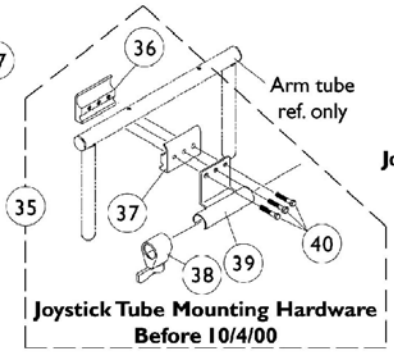




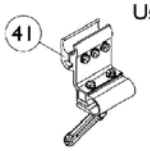
TOUCHPAD JOYSTICK
ON CHAIR:TCPDM4
OFF CHAIR:✪1091353
Used with display w/ switches
1108489



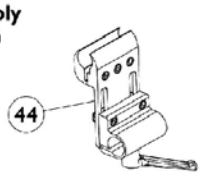




Joystick Tube Mounting Hardware Before 10/4/00



Joystick Tube Fixed Height Clamp Assembly After 10/3/00



Joystick Tube Adjustable Height Clamp Assembly

✪ Reset Switch may be required.

MKIV Joystick Options

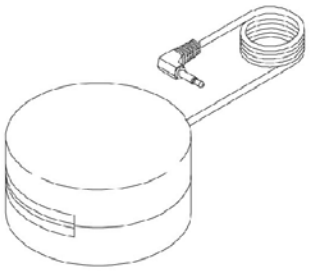
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1038634	Joystick, Remote	1	1
2		1010848	Clamp, Universal Swivel	1	1
3		12595X000	Lock Handle	1	1
4		40204X000	Nut, Hex (1/4-20)	1	1
5		1044928	Joystick Tube with Plug Button	1	1
6		1027095	Plug Button, Black (7/8")	1	1
7		1025590	Joystick, Attendant Control (1552M)	1	1
8		1041544-NLA	Joystick, Heavy Duty	1	1
9	A	1052719	Kit, Straight Joystick Tube with Hardware	1	1
10		1016401	Screw, Phillips Round Head (#10-32 x 3/8")	1	3
11		1027095	Plug Button, Black (7/8")	1	1
12	B	1044917	Hardware, Rear Cane Mount (1673/RCM)	1	1
13		1027095	Plug Button, Black (7/8")	1	1
14		1027274	Lock, Adjustment (Black)	1	1
15		1025245	Bracket, Upright -Right	1	1
16		1044918	Joystick Tube	1	1
17		1076284	Screw w/ washer (#10 x 7/8")	2	1
18	C	1052309	Arm Mount Tube with Plug Button	1	1
19		1027095	Plug Button, Black (7/8")	1	1
20		1038638	Joystick, MKIV Dual/Compact	1	1
21	D	1108012	Hardware, Dual/Compact Joystick Clamp Mounting	1	1
22		1025048	Clamp	1	1
23		1021460	Screw, Socket Button Head (#10-32 x 5/16")	1	4
24		1025045	Clamp, Mounting	1	1
25		1027089	Screw, Socket Head Cap (#10-24 x 1/2")	1	1
26		1026273	Spacer, Split (3/8" I.D.)	1	1
27	E	1020392	Chin Cup Assembly (1826)	1	1
28		1017545	Chin Cup	1	1
29		1017612	Screw, Adaptor	1	1
30		90032X000	Screw, Socket Set (#8-32 x 1/4")	1	2
31		1091353	Touchpad, Joystick Assembly	1	1
32	F	1092604	Kit, Straight Joystick Tube with Hardware	1	1
33		1027095	Plug Button, Black (7/8")	1	2
34		1052041	Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
35	G	1049591	Hardware, Joystick Tube Mounting	1	1
36		1027267	Half Clamp, Threaded Holes	1	1
37		1027266	Half Clamp, Non-Threaded Holes	1	1
38		1027274	Lock, Adjustment (Black)	1	1
39		1049582	Bracket, Joystick Mounting	1	1
40		16690X004	Screw, Hex Head (1/4-20 x 1-1/8")	1	3
41	H	1093071	Clamp, Fixed Height Joystick Tube	1	1
42	I	1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
43	J	1123276	Kit, Switch, Black Egg Reset, with Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1

MKIV Joystick Options

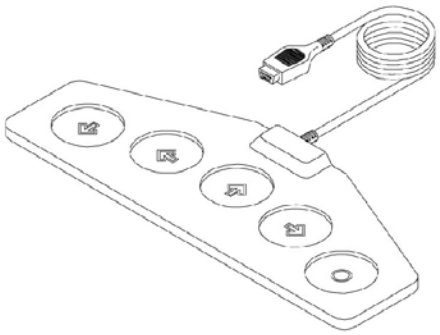
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
44		1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
	K	1108490	Display without Switches	1	1
	L	1108489	Display with Switches	1	1

NOTE:
A - Includes the joystick tube and items 10 and 11
B - Includes items 13-17
C - For On-Chair model numbers 1678 and 1679. Includes the joystick tube and item 19
D - Includes items 22-26
E - Includes items 28-30
F - Includes the joystick tube, items 33 and 34
G - Before 10/4/00 and includes items 36-40
H - After 10/3/00. Individual components are non-saleable. Can be used as a direct replacement in the field for the Joystick Tube Mounting Hardware part number 1049591.
I - Before 5/24/04
J - After 5/23/04. The Egg Reset Switch replaced the Red Flex Ribbon (Tape) Reset Switch
K - Not Shown and used with the Remote Joystick
L - Not Shown and used with the Heavy Duty and Touch Pad Joystick

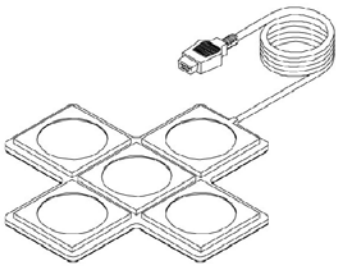
Tash and Therafin Accessories



P5820 - Red Soft Switch
P5821 - Green Soft Switch

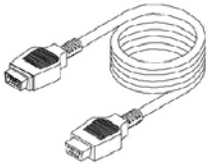


✪ P5018 - Wafer Board

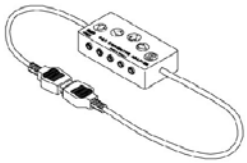


✪ P5026 - Star Control

✪ P5020
Mini Joystick with Push



P4337
Multi-Ability Cable



P4353
CA5 Multi-Connector Box

P5970
"U" Clamp

✪ *Must be used with display with switches (1108489)*

Tash and Therafin Accessories

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A	P5820	Switch, Red Soft	1	1
	A	P5821	Switch, Green Soft	1	1
	A,C	P5018	Wafer Board (5018)	1	1
	A,C	P5026	Star Control	1	1
	A,C	P5020	Mini Joystick with Push (5020)	1	1
	A	P4337	Multi-Ability Cable	1	1
	A	P4353	CA5 Multi-Connector Box	1	1
	A	P5970	"U" Clamp	1	1
	B	1142362	Bib Assembly (PKG32669)	1	1
	B	P21456	Adaptor Clamp - Tash	1	1
	B	P21457	Adaptor Clamp - Invacare	1	1
	B	P21460	Midline Swingway System	1	1
	B	1140824	Sip-N-Puff, 16" Fixed (PKG32666) Includes: 3 Air Tube Straws, 2 Saliva Traps, Tubing, Pivot Shaft/Flexible Metal Gooseneck Assembly, and Extruded Figure "8" Clamp to fit 7/8" Wheelchair Frame Tubing. Extruded Back Cane Adapter Clamp also included.	1	1
	B	1108489	Display with Switches	1	1

NOTE: A - See pictorial for reference
B - Not Shown
C - Must be used with display w/ switches

NOTE: For more information on Tash and Therafin products, please contact one of our Rehab Specialists.

Power Wheelchair Tool Kit

Multimeter with Leads

Grounding Wire

1" Test Leads

Protractor/Angle Locator

Invacare Pen Light

Invacare Tape Measure

Invacare Phillips/Flat Head Screwdriver

MKIV Programmer

Virtual Service Charger Cable

Power Wheelchair Tool Kit

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1125222	Kit, Power Wheelchair Tool Includes: 1 ea. Multimeter with Leads 1 ea. Locator, Protractor/Angle Magnetic Base 1 ea. Instructions, MKIV Programmer 1 ea. Wire, Grounding with Hand Strap and Clip 1 ea. Leads, 1" Test 1 ea. Light, Pen with Invacare Logo 1 ea. Tape Measure, Compact with Invacare Logo 1 ea. Screwdriver, Pen-Size Phillips/Flat Head 1 ea. Cable, Virtual Service Charger/Modem	1	1

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